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Smithsonian Year 1989 Supplement

Chronology and Appendixes

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Note. The arrangement of bureau listings within the individual appendixes is not alphabetical but rather follows the organization of the Smithsonian Institution as shown on the next page.

The pages of this *Supplement* were photomechanically reproduced from typescript provided by the bureaus and the offices.

Smithsonian Institution

Establishment, Board of Regents, Executive Committee, and the Secretary

- Office of the Secretary
- Office of the Under Secretary
- Office of the Inspector General
- Office of the General Counsel
- Office of the Treasurer

Research

- International Center
- Joseph Henry Papers
- National Zoological Park
- Office of American Studies
- Office of Fellowships and Grants
- Smithsonian Astrophysical Observatory
- Smithsonian Environmental Research Center
- Smithsonian Institution Archives
- Smithsonian Institution Libraries
- Smithsonian Tropical Research Institute

Museums

- Anacostia Museum
- Archives of American Art
- Arthur M. Sackler Gallery
- Conservation Analytical Laboratory
- Cooper-Hewitt Museum
- Freer Gallery of Art
- Hirshhorn Museum and Sculpture Garden
- National Air and Space Museum
- National Museum of African Art
- National Museum of American Art
- National Museum of American History
- National Museum of Natural History/National Museum of Man
- National Portrait Gallery
- Office of Exhibits Central
- Office of Horticulture
- Office of Museum Programs
- Office of the Registrar
- Smithsonian Institution Traveling Exhibition Service

Public Service

- National Demonstration Laboratory for Interactive Educational Technologies
- National Science Resources Center
- Office of Elementary and Secondary Education
- Office of Folklife Programs
- Office of Interdisciplinary Studies
- Office of Public Affairs
- Office of Telecommunications
- Smithsonian Institution Press
- Smithsonian Internship Council
- Smithsonian* Magazine
- "Smithsonian World"
- University of the Air
- Visitor Information and Associates' Reception Center

External Affairs

- Office of Membership and Development
- Women's Committee of the Smithsonian Associates
- Smithsonian National Associate Program
- Smithsonian Resident Associate Program
- Office of Special Events
- Office of Congressional Liaison

Institutional Initiatives

Administration

- Administrative and Support Activities
- Smithsonian Institution Women's Council

Under Separate Boards of Trustees

- John F. Kennedy Center for the Performing Arts
- National Gallery of Art
- Reading Is Fundamental
- Woodrow Wilson International Center for Scholars

Smithsonian Year 1989

Chronology

The following is a representative selection of Smithsonian events and milestones during the fiscal year 1988-89.

October

Outreach: The Office of Public Affairs produced a panel exhibit for the National Indian Education Association conference in Tulsa, Oklahoma. This was the Institution's first participation in this national conference and included a booth and presentation by Secretary Adams and other Smithsonian staff as part of the program.

October

Visitor: Nigerian artist Sokari Douglas Camp spent three weeks at the museum (into November) overseeing the installation of the exhibition "Echoes of the Kalabari: Sculpture by Sokari Douglas Camp."

October

Federal Appropriations: The Institution established a no-year federal account in the fiscal year 1989 budget to facilitate the development and acquisition of major scientific instrumentation. Initial funds will go to the development of the Astrophysical Observatory's submillimeter telescope and the conversion of the multiple-mirror telescope.

October

Publication: *Smithsonian Institution Equal Opportunity Report, October 1988* was published by the Office of Equal Opportunity as the first in a series of semiannual reports to the congressional appropriations committees.

October

Publication: *Crossroads of Continents*, by William Fitzhugh and Aron Crowell, based on the Smithsonian exhibition of the same name, was published. The book became the best-selling title of fiscal year 1988-89 for Smithsonian Institution Press' University Press Division.

October

Publication: *Best Addresses*, by James Goode, was published. This book garnered much critical praise and became the first Smithsonian Institution Press book to appear on the Washington Post best-seller list.

October

Seminar: The Office of Interdisciplinary Studies presented a seminar called "Metascience, Ethoscience--What Is Science Anyway?" as part of its "Ways of Knowing" series of interdisciplinary discussions for staff and fellows.

October

New Design: A new landscape plan with furnishings was developed for the north front of the Smithsonian Institution "Castle" Building by the Office of Horticulture.

October

Album Release: Smithsonian/Folkways completed its first album, "Folkways: The Original Vision." The album includes original recordings by Woody Guthrie and Leadbelly from the Columbia Records album "Folkways: A Vision Shared," plus other selections.

October 1

Milestone: The Office of Public Affairs launched its comprehensive Native American Media Outreach Program with the arrival of an American Indian intern, supported by the Smithsonian Educational Outreach Program. The program is designed to carry information both to and from American Indian communities.

October 1

High School Project: A pilot project, "African Art for High School Students," brought together dynamic students from throughout the city for instruction in the arts and culture of Africa. The ten-week project was funded by a grant from the Women's Committee of the Smithsonian Associates.

October 3

Milestone: A ribbon-cutting ceremony marked the official dedication of the Smithsonian's first child care center, in which thirty-five children between the ages of two and five were enrolled. A scholarship pool was established to assist low-income parents.

October 4-5

Colloquium: The Smithsonian's Office of Interdisciplinary Studies, together with the General Foods Fund and Winrock International, sponsored a colloquium titled "Completing the Food Chain: Strategies for Combating Hunger and Malnutrition." The event was held in conjunction with the awarding of the World Food Prize.

October 7

Exhibition: "On the Air: Pioneers of American Broadcasting," a major exhibition reflecting the history of early radio and television through portraiture, opened at the National Portrait Gallery.

October 8

Exhibition: The Arthur M. Sackler Gallery's first acquisition of Japanese art, a spectacular late eighteenth- to early nineteenth-century ceremonial palanquin, was placed on public display, along with the gallery's first acquisition of Japanese paintings, a pair of seventeenth-century six-panel screens.

October 13

Exhibition: "Portraits of the American Law," the first exhibition of the history of the American political system through portraits, opened at the National Portrait Gallery.

October 14-29

International Tour: The Cooper-Hewitt Museum conducted an architectural study tour to historic and contemporary landmarks in Hungary, Austria, Czechoslovakia, and Germany, providing an in-depth survey of Central European contributions in architecture and design.

October 18

Acquisition: The Zoo's Conservation and Research Center in Front Royal, Virginia, received three male and three female black-footed ferrets. The center was one of two picked by the Wyoming Game and Fish Department to receive the nearly extinct ferrets for the purpose of starting a breeding program.

October 24

Appointment: After a wide-ranging search, Dr. Milo C. Beach was named director of the Arthur M. Sackler Gallery and the Freer Gallery of Art. Dr. Beach, a distinguished scholar of the painting of India, was acting director of both museums for a year prior to the appointment. He served as assistant director of the Sackler Gallery from 1984 to 1987.

October 25

Special Project: The Smithsonian Institution Libraries introduced automated circulation with borrowers' cards and bar-coded books. The African Art Branch was the first to go on line. The automated circulation data base improves accountability and security and provides accurate data about the use of the Libraries' collections.

October 27

Exhibition: "To Color America: Portraits by Winold Reiss," a major exhibition of images of African Americans and American Indians, as well as some Asians and Mexicans, opened at the National Portrait Gallery.

October 28

Symposium: "Alberto Giacometti: An International Symposium," at which four leading American and European scholars explored aspects of the renowned Swiss sculptor's life and work, was held at the Hirshhorn Museum and Sculpture Garden. The symposium was cosponsored by the Smithsonian Resident Associate Program.

October 31

Reintroduction: Fifteen endangered golden lion tamarins left the National Zoo for reintroduction into Brazil. This was the fourth release since 1984. To date, sixty-one tamarins have been returned to the wild.

October 31

Milestone: The New York offices of the Archives of American Art moved to the newly constructed Equitable Center complex at 1285 Avenue of the Americas. In celebration of the move, an opening preview of the new spaces was held, along with an exhibition of original Archives material related to the 1913 Armory Show.

October 31

Milestone: The Cooper-Hewitt Museum officially welcomed newly appointed director Dianne H. Pilgrim. Mrs. Pilgrim was formerly chairman of the Department of Decorative Arts at the Brooklyn Museum in New York.

November

Acquisition: The Walt Disney Company donated six of the earliest drawings of Mickey Mouse to the National Museum of American History. The drawings are from the first completely synchronized sound cartoon, "Steamboat Willie," first shown in 1928.

November

Milestone: The James Smithson Society launched a new program, the Secretary's Circle, to assist with membership recruitment nationwide. This special volunteer group of members of the Society and of the National Board of Smithsonian Associates consists of forty-eight representatives throughout the United States.

November

Appointment: Joseph Carper was appointed director of the Smithsonian National Associate Program.

November

Microfilming Project: Filming started for "Books of the Fairs," with a selection of some two thousand books from the collections of the Smithsonian Institution Libraries. The microfilmed set will be accessible to scholars worldwide.

November

Research: An Institute for Theoretical Atomic and Molecular Physics was established at the Harvard-Smithsonian Center for Astrophysics in Cambridge, Massachusetts, under a grant from the National Science Foundation.

November

Agreement: The Smithsonian Institution Traveling Exhibition Service entered into an agreement with the USSR Ministry of Culture for the development, organization, and travel of "Moscow: Treasures and Traditions," an exhibition of two hundred objects produced by artisans and craftsmen from the sixteenth to early twentieth centuries. It will be on view in the United States beginning in June 1990.

November 1

Premiere: Discovery Theater's original production of "Rosa Parks: Speaking Out" made its debut. The show explored the life of a black woman who helped spark the civil rights movement in the United States in the 1960s. The production was also noteworthy for its incorporation of American Sign Language. Fiscal year 1989 represented the highest registration ever achieved by Discovery Theater.

November 2

Lecture: The Smithsonian Institution Libraries presented a public lecture titled "*E pluribus unum*. Do the Washington Metropolitan Area Universities Need A Super-Library?" Paul Vassallo, executive director of the Washington Research Library Consortium, was the speaker.

November 3

Special Event: A black tie dinner was held in the New York City Equitable Center complex to honor Archives of American Art Trustee Benjamin D. Holloway, who was responsible for securing office space for the Archives in this new complex. Proceeds from the evening benefited the Archives' New York Regional Center.

November 14

Exhibition and Publication: Co-organized by the Cooper-Hewitt Museum and the Carnegie Museum of Art in Pittsburgh, "Courts and Colonies: The William and Mary Style in Holland, England and America" opened in New York under the gracious patronage of Her Royal Highness Princess Margriet of the Netherlands. The show celebrated the 300th anniversary of the Glorious Revolution. Assembled by an international team of curators, it included more than 250 works of art, architectural prints, drawings, furniture, ceramics, and silver from the late seventeenth and early eighteenth centuries.

November 14

Meeting: Andrei Sakharov, renowned Soviet dissident, member of the Presidium of the USSR Academy of Sciences, and a deputy to the USSR Congress of People's Deputies, spoke at a meeting organized by the Kennan Institute for Advanced Russian Studies of the Woodrow Wilson International Center for Scholars. Sakharov died December 14, 1989.

November 19-23

Special Event: One hundred and eighty Smithsonian Contributing Members participated in a weekend program during which they visited selected exhibits with museum directors and curators. A similar program was held May 3-7.

November 20

Exhibition: "A Jeweler's Eye: Islamic Arts of the Book" showed 160 works from the Henri Vever collection of Persian and Indian paintings and manuscripts at the Arthur M. Sackler Gallery. This was the first public display since its purchase in 1986.

December

Kudos: *Giacometti*, by Valerie Fletcher, which is based on a Hirshhorn Museum and Sculpture Garden exhibition, was called "the most elegant art book of the year" by National Public Radio.

December

Exhibition: The Smithsonian Resident Associate Program's first exhibition of its commissioned art, "RAP Commission Art," opened in the Escalator Gallery of the S. Dillon Ripley Center. The exhibition celebrated special Smithsonian and citywide events. It featured sixteen lithographs, serigraphs, and posters by many well-known artists, including Alexander Calder, Gene Davis, Nancy Graves, Sam Gilliam, Larry Rivers, Robert Indiana, Richard Haas, and Willem De Looper.

December

Grants: The Smithsonian Institution Libraries received two grants from the Atherton Seidell Endowment Fund. One grant supports publication of the Libraries lecture, "Alchemical Death and Resurrection: Alchemy in the Age of Newton," by Professor B. J. T. Dobbs of Northwestern University. The second grant supports the publication of *Books of the Fairs*, a comprehensive reference guide, to a microfilm set of some two thousand books on international expositions.

December

Acquisition: The Henry and Ludmilla Shapiro Collection of Soviet Porcelains, comprising more than 250 examples of tablewares and figural porcelains from the time of the Russian Revolution to the present, was purchased with assistance from the Regents' Collections Acquisitions Fund and matched by funds raised by the Cooper-Hewitt Museum's Decorative Arts Association.

December

Special Events: The Anacostia Museum sponsored a month-long series of programs celebrating Kwanzaa, the African American holiday based on African harvest celebrations.

December

Dedication: A tree was planted in front of the Arts and Industries Building and dedicated in memory of Joseph Coudon VII, special assistant to the secretary of the Smithsonian.

December

Exhibition: The Smithsonian held its twelfth annual "Trees of Christmas" exhibition.

December 2

Exhibition and Symposium: "Perpetual Motif: The Art of Man Ray" opened at the National Museum of American Art. This major retrospective of the works of one of the founding fathers of modernism, a pioneer of both dada and surrealism, included 268 paintings, works on paper, photographs, films, and objects. In an all-day symposium, an international panel of scholars, artists, and critics discussed the importance of these avant-garde movements.

December 5

Endangered Species: Survey findings were released by the Center for Plant Conservation indicating that more than 250 species of America's plants may become extinct in the next one to five years. The announcement was made at a news conference at the Smithsonian, which conducted the first such survey in 1973.

December 12

Designation: In a small ceremony, the 280-seat Hirshhorn auditorium was named the Marion and Gustave Ring Auditorium, in acknowledgement of a recent significant donation of art from the collection of this late Washington, D.C., couple.

December 14

Exhibition: "Gerhard Richter," a major retrospective honoring one of Europe's leading avant-garde artists, opened at the Hirshhorn Museum and Sculpture Garden in its only East Coast showing. The exhibition was co-organized by the Art Gallery of Ontario in Toronto and the Museum of Contemporary Art in Chicago.

December 17

Special Event: As a special winter holiday event, Camille Saint-Saens' "Carnival of Animals" was performed in the National Zoo's Education Building Auditorium by pianists Ann Joseph and Natalie Ross.

December 21

Acquisition: The USSR donated an eight-foot model of a Proton launch vehicle to the National Air and Space Museum. The Proton rocket has launched all the Soviet space stations and planetary probes since 1965.

January

Renovation: The Smithsonian Institution Libraries completed the last stages of its renovation project begun in 1986.

January

New Project: The Smithsonian Institution Press launched a twelve-volume continuity series, *The Smithsonian Guides to Historic America*, which was developed in association with an outside publisher and the National Museum of American History. It is the first multivolume project undertaken by Smithsonian Books, the direct mail arm of the Smithsonian Institution Press.

January

Nomination: "Hoagy Carmichael," an album released by the Recordings Division of the Smithsonian Institution Press, received two Grammy nominations.

January

Publication: The three-volume study *The Great Tzotzil Dictionary of Santo Domingo Zinacantan, with Grammatical Analysis and Historical Commentary*, by Robert M. Laughlin with John B. Haviland, was published in Smithsonian Contributions to Anthropology, a federally funded monograph series.

January

Record Release: "American Musical Theater," a boxed set of recordings that chronicles the development of this distinctively American art form, was released by Smithsonian Institution Press and received broad national attention.

January

Radio Project: Joining with the Native American Public Broadcasting Consortium, the Office of Telecommunications received a planning grant from the Corporation for Public Broadcasting to begin work on a thirteen-part series for the Columbus Quincentenary to explore this event from the Native American perspective.

January

Special Event: The secretary hosted a dinner at the National Portrait Gallery to celebrate the inauguration of the Smithsonian Quincentenary Program.

January

Special Event: The secretary and the Smithsonian Cultural Education Committee hosted a lecture, performance, and reception at the National Museum of Natural History to celebrate the birthday of Dr. Martin Luther King, Jr.

January

Planning: The Board of Regents approved the *Five Year Prospectus, Fiscal Years 1990-1994*. The Prospectus calls for several programs: increased emphasis on identifying and pursuing construction and facilities repair priorities in future years, further attention to selected programmatic needs in areas such as scientific instrumentation and other technical forms of support, and the successful organization and conduct of events surrounding the forthcoming Columbus Quincentenary commemorations.

January

Special Event: The Presidential Inaugural Ball and the Vice-President's pre-inaugural reception were held at the National Air and Space Museum and the National Museum of American History, respectively. The Office of Protection Services, in close cooperation with the Secret Service, provided protection services for both events.

January

Community Training: In its ongoing commitment to work with museum educators and staff in the planning and collaboration of exhibition-related community programs, the Smithsonian Institution Traveling Exhibition Service conducted workshops in Florida, Mississippi, Michigan, and Washington, D.C., in conjunction with the exhibitions "Field to Factory: Afro-American Migrations, 1915-1940"; "Frank Lloyd Wright: Preserving an Architectural Heritage"; and "Inside Active Volcanoes: Kilauea and Mount St. Helens."

January

Publication: Contemporary Indian Tradition: Voices on Culture, Nature, and the Challenge of Change was published by Smithsonian Institution Press in the United States and by Oxford University Press in India. The book is based on the 1985 Festival of India symposium, "The Canvas of Culture: Rediscovery of the Past As Adaptation for the Future."

January 4

Milestone: At approximately 3:15 p.m., the majestic linden tree that dominated the Enid A. Haupt Garden behind the Smithsonian Castle Building fell, a victim of old age and high winds.

January 5

Construction: A three-year construction and renovation project began at the Freer Gallery of Art to expand conservation and collections storage space and allow passage between the Freer and the Sackler Galleries by connecting underground gallery space.

January 10

Special Event: The Office of Quincentenary Programs and the Office of the Secretary jointly hosted a dinner for the Ibero-American cultural attaches to inaugurate the Smithsonian's collaboration with Ibero-American embassies.

January 11

Award: The ninth Charles Lang Freer Medal was awarded to Alexander Coburn Soper III of the Institute of Fine Arts, New York University. Dr. Soper is an educator, writer, and editor widely recognized for his prolific contributions to the field of Asian art history.

January 15

Exhibition: "Inspiration, 1961-1988," featuring the works of local artists, opened at the Anacostia Museum. The exhibition included a variety of films and videos on African American art and artists.

January 16

Event: The Office of the Assistant Secretary for Public Service sponsored the third Smithsonian observance of the birthday of Dr. Martin Luther King, Jr. Jack Tchen, director of the Asian Pacific Studies Center, Queens College, and cofounder of the New York Chinatown History Project was the featured speaker.

January 24

Exhibition and Publication: "American Drawings from the Cooper-Hewitt Museum: Training the Hand and Eye" began its national tour in New York. The exhibition presents seventy-five drawings, watercolors, and oil sketches dating from the 1830s to the 1930s. Accompanied by a catalogue of the same title, the exhibition will travel under the auspices of the Smithsonian Institution Traveling Service through the fall of 1990.

January 27

Appointment: Rep. Jamie L. Whitten (D-Miss.) was appointed a member of the Smithsonian Board of Regents.

January 30

Press Conference: Secretary Adams announced a television series focusing on Latin American culture, which will be the centerpiece of the Institution's Columbus Quincentenary program. Mexican author Carlos Fuentes will write and narrate the programs. The press conference was organized by the Office of Public Affairs.

February

Space Flight: A high-resolution camera proposed by a team of Smithsonian scientists and engineers was selected as one of three focal-plane instruments for the National Aeronautics and Space Administration's Advanced X-ray Astrophysics Facility now scheduled for launch in the mid-1990s.

February

Service: An international astronomical data base operated by the Smithsonian Astrophysical Observatory, with support from the National Science Foundation and the National Aeronautics and Space Administration, became operational. The data base is for North American users.

February

Reorganization: The new director of the Smithsonian Institution Traveling Exhibition Service, Anna Cohn, introduced a staff reorganization based on teams for exhibition organization, interpretation, production, and registration. Additional support is provided by SITES service groups: publications, public relations, scheduling, and administration.

February

Collection: The collection of the late John M. and Lucy McLuckie of Coal City, Illinois, of more than 2,500 Paleozoic Era specimens of coal-swamp flora and fauna was donated to the National Museum of Natural History by the McLuckie children. Most of the material is of exceptional quality and spectacular size, including several one-of-a-kind and rare imprints.

February

Publication: *History of Indian-White Relations*, volume 4 in the National Museum of Natural History's encyclopedic *Handbook of North American Indians*, was published. The book traces the history of Indian and white relations in North America from Colonial days to the present and includes political, military, economic, and religious issues.

February

Broadcast: Through the auspices of the Office of Interdisciplinary Studies, Radio America aired an eight-part series of programs based on the March 1988 symposium "Afro-Americans and the Evolution of a Living Constitution." The program was distributed to more than three hundred radio stations nationwide and won an award from the Bicentennial Leadership Project.

February

Radio: Radio commercials were produced by the Office of Public Affairs and placed on two Washington, D.C., radio stations with predominantly African American audiences. The ads offered information on the Smithsonian and its Black History Month activities and, in cooperation with the Metropolitan Transit Authority, a free subway farecard to visit the Smithsonian.

February 1

Lecture Series: Daniel Buren, the French conceptual artist, discussed his newly completed Hirshhorn WORKS project and other commissions in the inaugural talk in a new "Focus" series. Providing a monthly forum for artists and curators involved with Hirshhorn exhibitions, the "Focus" series later featured artists Ericka Beckman, Buster Simpson, Mel Chin, Houston Conwill, Keith Sonnier, Director James T. Demetrian, and Ned Rifkin, chief curator for exhibitions.

February 3

Milestone: The development of a collaborative program in conservation studies involving Japanese and U.S. scientists was announced by the Smithsonian and the Japanese Agency for Cultural Affairs.

February 10

Visit: Members of the Donetsk State Opera and Ballet Theater visited the National Air and Space Museum. Secretary Adams hosted a reception for the troupe in the Castle building.

February 16

Concert: An evening of Persian music on the tar and setar by Dariush Dolat-shahi was the first event in a free, public two-month celebration of Persian art and culture cosponsored by the Arthur M. Sackler Gallery and the Foundation for Iranian Studies. Also included in the celebration were calligraphy and illumination workshops, lectures, and an evening of reading from the tenth-century Persian epic poem, the *Shahnama*.

February 17

Exhibition: "The Art of Paul Manship" opened at the National Museum of American Art. The exhibition was illuminated by a book on Manship by National Museum of American Art curator Harry Rand. The exhibition will tour to seven locations over the next three years, concluding at the Metropolitan Museum in New York.

February 19

Black History Month: As part of a series of public programs at the National Museum of American Art, the Howard University Jazz Ensemble presented a concert that was followed by a lecture on the influence of jazz on twentieth-century art. The lecture was given by Gwen Everett of the museum staff. Later in the month, E. Ethelbert Miller, director of the Afro-American Resource Center at Howard University, gave a reading of his poems, and Dr. Regenia A. Perry, professor of art history at Virginia Commonwealth University, lectured on masterworks by Afro-American artists in the museum collection.

February 20

Workshop: A field workshop on the "Reconstruction of Precolumbian Subsistence in the Humid American Tropics" for Latin American archaeologists was held at the Smithsonian Tropical Research Institute from February 20 through April 2. The seminar was coordinated by institute archaeologist Richard Cooke. Participants came from Panama, Colombia, Costa Rica, Ecuador, Honduras, Nicaragua, and Venezuela.

February 21-24

Conference: The Office of Protection Services hosted the twelfth Annual National Conference on Museum Security. The conference identified many shared concerns and problems in the area of museum security and served as a forum for participants to share solutions to those problems.

February 24

Benefit: The preview reception for USArt, an annual San Francisco exhibition and sale of eighteenth- to twentieth-century American art, benefited the West Coast Regional Center of the Archives of American Art.

March

Grants: The Smithsonian Institution Libraries received funds awarded by the Women's Committee of the Smithsonian Associates to support two projects: conservation of a fifteen-volume set of nineteenth-century Indian textile samples now in the collections of the Cooper-Hewitt Branch and assistance with the publication of an illustrated lecture, "Alchemical Death and Resurrection: Alchemy in the Age of Newton," by Professor B. J. T. Dobbs of Northwestern University.

March

Restoration: The Smithsonian Institution Libraries Book Conservation Laboratory began restoring James Smithson's personal library that consists of about one hundred surviving books of the Institution's founder.

March

Symposium: "The World of Samuel Beckett" was explored in a three-day symposium cosponsored by the Smithsonian Resident Associate Program, the Forum of Psychiatry and the Humanities, the Washington School of Psychiatry, the Forum for the Psychoanalytic Study of Film, and the Visual Press, University of Maryland. Highlights of the symposium were the video premieres of "Waiting For Godot" and "Krapp's Last Tape," which was recently performed in Paris with the involvement and imprimatur of Beckett himself.

March

Glasnost: The Smithsonian Resident Associate Program opened the Glasnost Film Festival series, which featured the American premiere of new Soviet documentaries. The series was introduced by Leonid Gurevich, chairman, Documentary Film Section, USSR Union of Cinematographers. Gurevich led a delegation of Soviet filmmakers and directors to the premiere evening.

March

Publication: Jeremy B. C. Jackson, Smithsonian Tropical Research Institute marine scientist, and F. K. McKinney published the book *Bryozoan Evolution*, which presents complete descriptions of major patterns of evolution of bryozoan colony forms. The book contains much new data on the implications of the evolutionary changes adopted by bryozoans and will serve as an important reference source for specialists in the fields of paleontology, marine ecology, and invertebrate zoology.

March

Season Premiere: "Here at the Smithsonian," the Institution's series of short television features, began its seventh season. Nationwide, 175 television stations subscribe.

March 2

Special Celebration: The National Zoo celebrated its one-hundredth birthday with a parade through the Zoo grounds, birthday greetings from civic leaders, and the cutting of a centennial cake by First Lady Barbara Bush.

March 7

Anniversary Celebrations: President George Bush addressed participants at the twentieth anniversary celebration of the Woodrow Wilson International Center for Scholars. Other speakers included Senator Daniel Patrick Moynihan, who was involved in the original planning of the Center and served as vice chairman of its Board of Trustees from 1971 to 1976; Secretary of State James Baker, currently a member of the Board of Trustees; William J. Baroody, Jr., chairman of the Board of Trustees; and Charles Blitzer, director of the Center.

March 12

Seminar: The Office of Interdisciplinary Studies organized a seminar at the Library of Congress titled "Patterns in History and the Rise and Fall of Nations."

March 15

Acquisitions: The opening of the exhibition "Recent Acquisitions: 1986-1988" at the Hirshhorn Museum and Sculpture Garden showed for the first time newly acquired works by Daniel Vladimir Baranoff-Rossine, Ernst Barlach, Sandro Chia, Lucian Freud, Nancy Graves, Oto Gutfreund, Jasper Johns, Martin Puryear, Yves Tinguely, and others. Not included in the exhibition, but also acquired during fiscal year 1989, were important works by Sigmar Polke and Anish Kapoor.

March 19

Special Event: Seal Day, with special talks and demonstrations to increase public awareness of the need to conserve seals, was held at the National Zoo.

March 20

Product Licensing: Smithsonian announced a licensing agreement with Century Furniture Co. of Hickory, North Carolina, that allows reproductions of eighteenth- and nineteenth-century furniture selected from the Smithsonian collections.

March 23-26

Symposium: The Office of Folklife Programs sponsored a symposium titled "Seeds of Commerce: Cultural and Economic Exchange in the Caribbean." It is the second in a series of three Quincentenary symposia. Held in Santiago de Cuba under the auspices of the Casa del Caribe, presentations examined the impact of Colonial plantation systems on the development of folklife and culture in Caribbean societies.

March 29-30

Exhibition: "L'Art de Vivre: Decorative Arts and Design in France, 1789-1989" opened at the Cooper-Hewitt Museum with a preview on March 29 and a public opening the following day. The landmark exhibition, which celebrates the bicentennial of the French Revolution, was funded by a generous grant from the Comite Colbert. It was the first exhibition since 1976 to fill the entire museum; it was accompanied by a publication of the same title.

April

Program: Nobel Laureate Dr. James D. Watson spoke to a capacity audience on "Mapping the Human Genome." The event was sponsored by the Smithsonian Resident Associate Program.

April

Performances: The Duke Ellington Festival at the National Museum of American History presented more than thirty-five performances of Ellington's music by renowned jazz artists; the festival also included films and a symposium.

April

Video Release: "The Magnificent Whales," the first video production from the Smithsonian Institution Press, was released through Smithsonian Books.

April

Research: Nearly two decades after the Apollo astronauts returned the first samples of lunar soil, a Smithsonian Astrophysical Observatory geologist has identified a rock type--cordierite--not previously seen in any of the lunar soil samples.

April

Instrumentation: A fifth Automatic Photoelectric Telescope was installed at the Smithsonian's Whipple Observatory in Arizona, where it will be used in cooperative programs to observe variable stars.

April

Laboratory: The National Museum of Natural History's new Laboratory of Molecular Systematics became fully operational, providing a powerful new thrust to the museum's programs in systematic and evolutionary biology and making possible biochemical and molecular genetic studies of DNA and proteins. The laboratory, located at the Museum Support Center in Suitland, Maryland, is directed by Dr. Michael Braun.

April

Installation: The Office of Horticulture installed a recently restored nineteenth-century fountain titled "Boy With Sword" in the rotunda of the Arts and Industries Building.

April

Latino Outreach: "Descubra el Smithsonian," an Office of Telecommunications pilot series of two-minute capsules for Spanish-language television, premiered at the National Hispanic Media Conference in Puerto Rico.

April

Endowment: The Global Environmental Endowment Fund was created to support research, conservation, training, and public education in the field of global environmental studies at the Smithsonian, including biological diversity, faunal and floral conservation, protection of endangered species, and biotic adaptation to global change.

April

Special Event: The assistant secretary for public service and the National Cancer Institute hosted an awards presentation and reception in the Arts and Industries Building in observance of National Minority Cancer Awareness Week.

April

Move: The Office of Personnel Administration moved to new quarters at L'Enfant Plaza.

April

Publication: *Global Volcanism 1975-85: The First Decade of Reports from the Smithsonian Institution's Scientific Events Alert Network (SEAN)* was published. Edited by National Museum of Natural History researchers Lindsay McClelland, Tom Simkin, Marjorie Summers, Elizabeth Nielsen, and Thomas C. Stein, this 672-page book is the most complete record ever assembled of all known volcanic events in the world--both major and minor--during a ten-year period.

April 5

Grant: The National Portrait Gallery received a grant from the Smithsonian Society and Mrs. J. Paul Austin to purchase the Richard Avedon portfolio of seventy-three photographs.

April 5

Visit: President George Bush and Israeli Prime Minister Yitzhak Shamir toured the National Air and Space Museum and later saw "To Fly!" the museum's ever-popular IMAX film about the history of flight.

April 6

Exhibition: "The Ceremonial Court," a new permanent exhibition, opened at the National Museum of American History. The entrance recreates the front corridor of the White House as it looked during the administration of Theodore Roosevelt. The exhibition includes a number of original elements from the White House. Galleries within hold first ladies gowns, presidential artifacts, jewelry, pottery, and other objects from collections throughout the museum.

April 7

Exhibition: "The Boat Show: Fantastic Vessels, Fictional Voyages" opened at the Renwick Gallery of the National Museum of American Art. The exhibition included eighteen three-dimensional objects by fifteen contemporary artists who drew upon a legacy of maritime imagery and symbolism. The public was invited to watch five artists assemble their large-scale works from such diverse materials as wood, glass, metal, hay, and twine.

April 10

Installation: "The Daguerre Monument," Jonathan Scott Hartley's large sculpture honoring Louis Daguerre, the French pioneer of photography, was unveiled and placed on view on the Seventh Street side of the National Portrait Gallery and the National Museum of American Art.

April 15

Exhibition: "Isamu Noguchi Portrait Sculpture," the first retrospective of a major Japanese American sculptor, opened at the National Portrait Gallery.

April 16

Donation: The National Air and Space Museum accepted the promise of a supersonic Concorde airplane from Air France as part of the commemoration of the bicentennial of the French Revolution. The airplane will become part of the museum's collection after it has been retired from active service.

April 19

Exhibition: A full-scale structural and dynamic test vehicle for the Hubble Space Telescope was installed in the National Air and Space Museum's Space Hall. The Space Telescope, the largest orbiting observatory ever built, will provide deep space images with ten times the clarity and fifty times the light sensitivity of the best ground-based telescopes.

April 19-22

Hispanic Media Conference: The Office of Public Affairs, in conjunction with the Office of the Assistant Secretary for Public Service, coordinated the preparation of an exhibit for the Seventh Annual National Hispanic Media Conference in San Juan, Puerto Rico, along with a reception and the appearance of Secretary Adams as a keynote banquet speaker. Twelve hundred reporters attended the conference. A new bilingual brochure on Latino resources at the Smithsonian, produced by the Office of Public Affairs, was distributed at the conference.

April 22

International Conference: "New Approaches to Persian Art and Culture" explored the significant themes that have emerged from recent scholarly research in Persian art and culture. The day-long event featured five papers and a panel discussion by internationally known scholars of Persian art, culture, and languages.

April 27

Exhibition: Organized by the National Museum of American Art, "The Photography of Invention: American Pictures of the 1980s" opened in celebration of the 150th anniversary of photography. The exhibition included recent works by ninety artists (six works were especially created for the show) emphasizing the new versatility and inventiveness of the medium. The exhibition later traveled to Chicago and Minneapolis.

April 27

Announcement: The National Air and Space Museum announced plans for a major new large-format IMAX film on space that will focus on the beauty of the Earth and the fragility of its environmental systems. "Blue Planet," produced in cooperation with the National Aeronautics and Space Administration, will feature scenes shot on several space shuttle flights by astronauts trained to use the IMAX camera.

April 28

Award: Dr. Edward J. Nygren, director of the Smith College Museum of Art, was selected as the first recipient of the Charles C. Eldredge Prize for outstanding scholarship in American art. Established by the American Art Forum, a patron's support organization of the National Museum of American Art, it is given in honor of the museum's former director, who founded the forum in 1985.

April 29

Film: The opening of the third Washington, D.C., International Filmfest was held at the Hirshhorn Museum and Sculpture Garden. The filmfest was sponsored by the Office of the Assistant Secretary for Public Service, and the Asian Pacific American Heritage Committee served as host.

May

Space Flight: The Smithsonian Astrophysical Observatory received a four-year, \$17 million contract to build and operate the Submillimeter Wave Astronomy Satellite, which will study how molecular clouds in the Milky Way collapse to form stars and planets.

May

Exhibition: "Men and Women: A History of Costume, Gender, and Power" opened at the National Museum of American History. The exhibition chronicles the history of costume and fashion in American history while probing the changing--and, in some cases, unchanging--standards of appearance and behavior for men and women.

May

Appointment: Edgardo Maravi was appointed the first development officer for the Smithsonian Tropical Research Institute. Mr. Maravi trained as an agronomist at the Universidad Agraria in Tingo Maria, Peru.

May

Program: National Museum of Natural History Director Frank Talbot hosted a reception for thirty guests at the Smithsonian's Barney Studio House to introduce the museum's new Director's Circle, a high-level membership program designed to introduce individuals to behind-the-scenes activities at the National Museum of Natural History.

May

Special Event: Secretary Adams and the Ambassador of France hosted a reception to celebrate the display in the Arts and Industries Building of the historic documents the Declaration of the Rights of Man and the Constitution of 1791 in conjunction with the bicentennial of the French Revolution.

May

Donation: The Smithsonian received five watercolor paintings of orchids by Barbara Todd Kennedy, donated to the Office of Horticulture by the artist.

May 1

Public Service Announcement: Japanese American actor Pat Morita, who served as on-camera narrator, appeared with twenty local children in a filmed public service announcement produced for television by the Office of Public Affairs in its continuing efforts to reach culturally diverse audiences.

May 2

Video Premiere: "Democracy and Rights: One Citizen's Challenge," a documentary for high school students jointly produced by the Office of Interdisciplinary Studies and the CloseUp Foundation, was screened. The video featured Ernest Green and Justice William J. Brennan, Jr. and was narrated by Justice Sandra Day O'Connor. It is based on the 1987 international symposium, "Constitutional Roots, Rights, and Responsibilities."

May 2-3

Conference: The Forum on Global Change and Our Common Future was cosponsored by the Smithsonian Institution and the National Academy of Sciences for the purpose of communicating to the public and policymakers the current scientific understanding of the broad range of issues related to global environmental change.

May 3

Grant: The National Portrait Gallery received a grant from the Cafritz Foundation for the purchase of the portrait of Bishop George Berkeley by John Smibert.

May 3

Exhibit: The Wetlands/Waterfowl Exhibit opened at the National Zoological Park, and the Zoo's Conservation Medal was awarded to Sir Peter Scott. Smithsonian Secretary Emeritus S. Dillon Ripley presented the medal to Sir Peter, who cut a ribbon to open the exhibit.

May 4-7

Workshop: The Smithsonian Institution/Man and the Biosphere Program conducted a demonstration workshop on research methods for biological inventory, cosponsored by the National Park Service, at the Great Smoky Mountains Biosphere Reserve in Tennessee.

May 5-6

Symposium: A symposium titled "Violence and Resistance in the Americas: The Legacy of the Conquest," sponsored by the Office of Quincentenary Programs and coordinated by the Office of Conference Services, was held.

May 8

Milestone: Secretary Adams signed a Memorandum of Understanding with the Museum of the American Indian, Heye Foundation, in New York City, under which the Heye Foundation's American Indian objects will be transferred to the Smithsonian. The signing ceremony, part of a major press conference organized by the Office of Public Affairs, involved American Indian representatives, Smithsonian regents, members of Congress, and other dignitaries.

May 11-12

Conference: The Office of International Relations, in coordination with the U.S. Agency for International Development, held a conference titled "Incentives and Constraints: Macroeconomic Policy Impacts on Natural Resource Utilization."

May 12

Exhibition: The computer revolution in aerospace was the subject of a major new gallery at the National Air and Space Museum. "Beyond the Limits: Flight Enters the Computer Age" was organized into seven exhibit areas, each featuring hands-on interactive computer terminals so that visitors can see for themselves the kinds of tasks that computers perform.

May 15-19

Special Event: In recognition that a healthy work force is one of the Smithsonian's most valuable assets, the Office of Protection Services expanded the Institution's occupational health program by initiating employee wellness activities. During "Fit Week," hundreds of employees participated in such programs as health assessment, on-site exercise classes and a weight-control program, and special screening activities (including blood pressure monitoring, cholesterol screening, and mammography).

May 19

Meeting: In a meeting at the Woodrow Wilson International Center for Scholars, Bronislaw Geremek discussed Poland's upcoming elections that were to result in Eastern Europe's first noncommunist government since World War II. Geremek, a medieval historian and former fellow of the Woodrow Wilson Center, was elected to Poland's parliament in the June 1989 elections and became Solidarity's floor leader in the lower house.

May 21

Grant: The Peter Krueger-Christie's Fellowship was established for advanced research in design and decorative arts at the Cooper-Hewitt Museum. Mr. and Mrs. Harvey Krueger joined with Christie's to make possible the fellowship in memory of their son, Peter A. Krueger, former vice-president of French and Continental Furniture at Christie's and one-time intern at the Cooper-Hewitt Museum.

May 21

Exhibition: "The Real McCoy: African American Invention and Innovation, 1619-1930," which traces the important role played by African American inventiveness, opened at the Anacostia Museum. The exhibition included a wide range of educational programs focusing on inventiveness and creativity for the museum's diverse audiences.

May 23

Milestone: The Cooper-Hewitt Museum purchased the landmark townhouse adjacent to its current facilities. The building is a major element of the museum's master plan to develop a coherent public facility, equipped with a study center for three-dimensional objects, an auditorium for lectures, conferences, and other programs, and adequate space for collection storage, a loading dock, and a receiving area.

May 23

Special Event: In conjunction with Reading Is Fundamental and ABC-TV's "Good Morning America" show, the National Zoological Park provided support for a special broadcast to encourage literacy. First Lady Barbara Bush took part in the program, which was aired from the Zoo's Education Building Auditorium.

May 24-June 7

Expedition: A Smithsonian Research Expedition titled "Documenting Our Veterans' Memorials" was conducted in Washington, D.C., to capture on film the preparation, commemoration, and aftermath of Memorial Day for the Smithsonian's photographic archives and for the National Museum of American History's Division of Armed Forces.

May 25

Special Event: Friends of the National Zoo's ZooFari, a gala evening event to raise funds for the Zoo's Theodore H. Reed Animal Acquisition Fund, attracted hundreds of participants. The fund supports the propagation of rare and endangered species at the National Zoo.

June

Publication: A book, *The Bishop's Boys: A Life of Wilbur and Orville Wright*, written by Tom D. Crouch, chairman of the Department of Social and Cultural History at the National Museum of American History, was published by W. W. Norton and Company.

June

Lecture: Internationally recognized author, lecturer, teacher, photographer, and scholar Beaumont Newhall spoke on "The Birth of Photography" in an evening marking the 150th anniversary of photography and complementing the National Gallery of Art exhibition "On the Art of Fixing a Shadow: 150 Years of Photography." The evening was cosponsored by the Smithsonian Resident Associate Program.

June

Exhibition: "Great American Comics: 100 Years of Cartoon Art" received generous funding from King Features' Syndicate. In the centennial year of American comic strips, this exhibition, which will travel, examines the social and political impact and artistic heritage of cartoons in our culture.

June

Special Event: National Museum of Natural History anthropologist Ives Goddard and colleague Dr. Kathleen Bragdon presented copies of their newly published study, "Native Writings in the Massachusetts Language" (American Philosophical Society), to representatives of the Wampanoag Tribal Councils of Mashpee and Gay Head (Massachusetts). This two-volume work contains the first translation ever made of the body of known surviving manuscripts written by Christian Indians in southeastern Massachusetts during the Colonial period.

June

Research: Speckle interferometry observations of Supernova 1987A by a Smithsonian Astrophysical Observatory team revealed a displacement in the supernova's center of brightness with respect to its suspected pre-explosion progenitor star. This suggests that the star may have been part of a binary system and that one component survived the massive explosion.

June

Program: The National Museum of Natural History added a major component to its biodiversity program by taking over administrative responsibility for the Minimum Critical Size of Ecosystems project from the World Wildlife Fund, which initiated it. The project, located in Manaus, Brazil, has made a significant contribution to tropical forest conservation by demonstrating that species disappear from a land area in inverse relation to its size.

June

Phone System: To handle the Institution's half million annual public inquiries more efficiently, a new phone system was installed in the Visitor Information and Associates' Reception Center.

June

Startup: The Office of Folklife Programs initiated a startup of the on-demand cassette fulfillment distribution of Folkways titles not commercially available.

June

Publication: The Office of Interdisciplinary Studies' brochure titled "The Wholeness of Knowledge," detailing the history and purpose of the office, was published.

June

Publication: "Science Education: A Challenge for Excellence in America's Future," proceedings of a May 1988 colloquium organized by the Office of Interdisciplinary Studies and the Achievement Rewards for College Scientists Foundation, was published.

June

New Unit: Smithsonian Institution Libraries Director Barbara J. Smith approved an earlier agreement between John R. Kinard and Vija L. Karklins that stated that the Anacostia Museum Library be included in the Smithsonian Institution Libraries' History and Art Unit. The library collections will be incorporated in the Museum of American History Branch of the Smithsonian Institution Libraries.

June 1

Television Series: At a ceremony presided over by Luis Gomez-Acebo, Duque de Badajoz, and the Smithsonian Institution's representative in Spain, the Sociedad General de Television, S.A., the Sociedad Estatal para la Ejecucion de Programas del Quinto Centenario, and the Smithsonian Institution signed an agreement to produce a six-part, bilingual television series, "The Buried Mirror."

June 1

Dedication: The Charles McC. Mathias Laboratory at the Smithsonian Environmental Research Center was dedicated to the former Maryland senator in recognition of his very active role in Chesapeake Bay environmental issues.

June 3

Exhibition: The exhibition "Caribbean Festival Arts," organized by the St. Louis Art Museum, opened to the public in the International Gallery.

June 4

Book Signing: Alice Walker, author of *The Color Purple* and *The Temple of My Familiar*, gave a Smithsonian Resident Associate Program lecture and appeared later at a book signing reception.

June 4

Program: The fourteenth annual High School Summer Intern Program began its first session under the auspices of the Office of Elementary and Secondary Education. Each summer, this program brings forty high school graduates from around the country to the Institution for a five-week learning/service experience.

June 5

Family Days: The first of four family days planned to support the "Caribbean Festival Arts" exhibition was held. These events had broad appeal and involved community participation from local West Indian communities. Each event attracted an audience of approximately 10,000. Other family days were held on July 8, August 5, and September 2.

June 6

Tribute: In a small ceremony, the reflecting pool of the Hirshhorn Museum and Sculpture Garden was named the Jacob and Charlotte Lehrman Foundation Pool in acknowledgement of a generous grant to the museum from that foundation.

June 9

Lecture: The first offering in the Joseph Fletcher, Jr., Lecture Series was delivered by Glenn D. Lowry, curator of Near Eastern art at the Arthur M. Sackler Gallery and the Freer Gallery of Art. The three-part series focused on various aspects of Persian art and architecture and was held to coincide with the Sackler Gallery exhibition "Timur and the Princely Vision: Persian Art and Culture in the Fifteenth Century." The remaining two lectures in the series were delivered by John Woods of the University of Chicago and Lisa Golumbek of the Royal Ontario Museum in Toronto, Canada.

June 9

Workshop: A workshop for bureau office directors and central managers was held to identify ways to improve the planning process at the Smithsonian. The workshop was sponsored by the Office of Planning and Budget and conducted by the National Center for Higher Educational Management Systems.

June 13

Special Event: The second annual Smithsonian Garden Party honoring the new members of the Board of Regents, Vice President Quayle and Rep. Jamie Whitten, and members of the 101st Congress was held in the Enid A. Haupt Garden.

June 14-17

Triennial Meeting: The Museum of African Art hosted the Eighth Triennial Symposium on African Art organized by the Arts Council of the African Studies Association and sponsored by ACASA, Shell Companies Foundation, Inc., the National Museum of African Art, and the National Museum of Natural History.

June 15

Symposium: In conjunction with the Cooper-Hewitt Museum's exhibition "L'Art de Vivre," a symposium titled "A Taste for History: Furnishings and Fashion in 19th-Century France" was held. The all-day symposium included three scholarly lectures about the evolution of the interior, the art of the table, and the art of fashion during the period, followed by a roundtable discussion with curators, editors, and important French design industry executives.

June 16

Exhibition: "Aeropittura Futurista: Images of Flight in Italian Art from 1913 to 1942" opened at the National Air and Space Museum. The exhibition emphasized a style of futurism that embraced technology as its subject matter and glorified the airplane as a symbol of the modern age. Some seventy works of art and forty documents were on display for the three-month exhibition.

June 16

Summer Hours: Extended hours for the National Museum of American History, the National Museum of Natural History, and the National Air and Space Museum began. This year, they included an extra half-hour in the morning, as well as evening hours. Hours were 9:30 a.m. to 7:30 p.m. and continued through Labor Day, September 4.

June 17

Celebration: The Anacostia Museum held a "Juneteenth Day" celebration commemorating the day that Texan slaves first learned of their emancipation. The holiday observance, traditionally held on June 19, was the occasion for quilting demonstrations, storytelling, musical performances, and the display of Texan folk art at the museum.

June 20

Distinguished Guest: Wang Yani, the 14-year-old Chinese girl who became the youngest artist ever to have a one-person exhibition at the Smithsonian, traveled from China for the opening of "Yani: The Brush of Innocence" at the Arthur M. Sackler Gallery. At the press preview held on this day, she demonstrated her painting to an enthusiastic audience of representatives from the print and electronic media. The exhibition drew twice as many visitors to the gallery during July and August as it had had the previous year.

June 21

Exhibition: "Robert Moskowitz," the first museum retrospective for this 54-year-old artist who has been increasingly recognized for his distinct contribution to contemporary American painting opened its national tour at the Hirshhorn Museum and Sculpture Garden.

June 23-27; June 30-July 4

Festival of American Folklife: The twenty-third annual Festival of American Folklife featured Hawai'i folklife; oral traditions and crafts of communities in France and French-speaking North America; access to cultural, social, and natural resources among American Indians; and cultural encounters throughout the Caribbean, highlighting Haiti, Jamaica, Puerto Rico, and Cuba.

June 22

Open House: An all-day centennial community celebration at the National Zoo was held. Activities included the opening of a special exhibit of historical Zoo photographs, performances by musical groups, animal demonstrations, and animal keeper talks and tours.

June 24

Special Event: As part of the Festival of American Folklife, the Hawai'i program presented a *pa'u* parade featuring flower-adorned horses and riders. The parade was led by Governor and Mrs. John Waihee of Hawai'i and Representative David K. Akaka.

June 26

Seminars: The Office of Elementary and Secondary Education began its 1989 series of summer seminars for teachers. This year the program included eight seminars for local teachers from the Washington, D.C., area and one graduate course for teachers around the United States.

June 29-July 13

Institute: The Office of Folklife Programs' Folklore Summer Institute for Community Scholars hosted thirteen individuals, who have been involved in collecting, preserving, and presenting folklore in their home communities, for training and information exchange. The participants represented a variety of cultural and geographic regions of the United States.

July

Award: Dr. Bernice Johnson Reagon, curator in the Division of Community Life at the National Museum of American History, received a \$275,000 fellowship to pursue work of her choice from the John D. and Catherine T. MacArthur Foundation.

July

Expansion: Smithsonian Institution Press expanded its international distribution capabilities significantly by joining a marketing consortium with university presses from Harvard, Yale, MIT, the Brookings Institution, and the University of Chicago.

July

New Directions: The release of the book titled *Just Before Jazz: Black Musical Theater in New York, 1890-1915* signals the expansion of the Smithsonian Institution Press' list-building efforts in books about music and American cultural history.

July

Program: The National Museum of Natural History's Office of Education began a program that brings storytellers, musicians, dancers, and artisans to the museum setting from tribes throughout the United States and Canada to demonstrate the cultural heritage of Native Americans that is still thriving in many different forms throughout North America. Among the participants was Vanessa Morgan, an Oklahoma Kiowa, whose skill at bead working made her a 1989 recipient of a National Heritage Award from the Folk Art Program of the National Endowment for the Arts.

July

Workshop: The first joint Mexican and American workshop on the taxonomy and natural history of the bees of Mexico was held in Mexico. Organized by Mexican and United States scientists with funding provided by the Smithsonian's Office of International Relations through its International Exchanges Program, the workshop was the outgrowth of a cooperative program on the bees of Mexico.

July and September

Acquisition: Two important collections of extraordinary utilitarian objects primarily from East and Southern Africa were acquired by the Museum of African Art.

July 2

Milestone: Alice Burnette was named assistant secretary for institutional initiatives, the first woman to be appointed as an assistant secretary in the Institution's senior management staff.

July 2

Workshop: The Smithsonian Institution/Man and the Biosphere Program, in cooperation with Liga de Defensa del Medio Ambiente, the Academia de Ciencias Naturales, and the Universidad Mayor de San Andres, conducted the program's third annual workshop in Bolivia titled "Conservation of Natural Resources and the Management of Protected Areas, Flora, and Fauna in Bolivia." The program continued to August 1.

July 3

Exhibition: The Smithsonian Institution Libraries opened an exhibition on stratigraphy titled "Stratigraphy's Golden Age: Murchison and his Silurian System." The exhibition was curated by Ellen B. Wells and commemorated the 150th anniversary of a landmark in stratigraphy. The show, which was accompanied by an illustrated brochure, was coordinated with the 28th International Geological Congress, which met in Washington, D.C.

July 5

Appointment: Barbara J. Smith was appointed director of the Smithsonian Institution Libraries. Dr. Smith was assistant dean of libraries at Pennsylvania State University. She succeeds Robert Maloy, who left the Smithsonian Institution Libraries in October 1987.

July 6

Exhibition: "Inside Active Volcanoes: Kilauea and Mount St. Helens" opened and drew 514,979 visitors during its twelve-week run, the highest attendance ever recorded for a National Museum of Natural History Evans Gallery exhibition. The exhibition will travel for three years to eleven major cities.

July 6

Research Grant: The National Museum of American Art received \$850,000 from the Pew Charitable Trusts in Philadelphia for a national inventory and condition assessment of American sculpture. The money was awarded jointly to the projects cosponsor, the National Institute for the Conservation of Cultural Property, in Washington, D.C.

July 10-22

Program: The National Science Resources Center launched its first Elementary Science Leadership Institute in the S. Dillon Ripley Center with forty-five representatives from fifteen of the largest school districts nationwide. Participants attended workshops on the benefits of hands-on science learning and formulated plans to implement improvements in their local elementary science education programs.

July 11

Reception: The Smithsonian Institution Libraries cohosted a reception with the History of Earth Sciences Society for attendees of the 28th International Geological Congress in the Dibner Library of the History of Science and Technology.

July 14-16

Regional Event: The Smithsonian National Associate Lecture and Seminar Program presented a weekend of lectures and workshops in conjunction with the California Museum of Science and Industry, Los Angeles, California, to celebrate the twentieth anniversary of the Apollo 11 moon landing. Staff from the National Air and Space Museum presented programs, including "The History of Manned Space Flight" and "A Spacecraft Tour of the Solar System."

July 20

Special Event: The National Air and Space Museum, along with the National Aeronautics and Space Administration, celebrated the twentieth anniversary of the first manned landing on the moon. A morning public ceremony held on the steps of the museum included participation by President George Bush, Vice President Dan Quayle, and the Apollo 11 crew. A free lunar landing party held later that evening attracted thousands of area residents and visitors and featured films, tours, education programs, and other special activities. The Office of Protection Services, in close cooperation with the Secret Service, the U.S. Park Police, and local law enforcement authorities, provided protection services for the celebration.

July 27-28

Advisory Council: The Office of Elementary and Secondary Education convened the third annual meeting of the Smithsonian Advisory Council on Education. Appointed by the secretary, the council is charged with the task of helping to stimulate and shape Smithsonian-wide priorities and directions in education.

August

Search Committee: A search committee, chaired by Smithsonian Undersecretary Dean Anderson, was announced to nominate a director for the proposed National Museum of the American Indian.

August

Research: An X-ray instrument called the Large Area Modular Array of Reflectors developed at the Harvard-Smithsonian Center for Astrophysics was selected as one of fourteen scientific experiments to be attached to the Space Station during its assembly.

August

Information System: Phase three of the Visitor Information and Associates' Reception Center's exterior graphic information system--the redesign and refurbishment of the Mall general information directories (a joint project of the Smithsonian Institution and the National Park Service)--was completed.

August

Awards: Four Golden Eagle (first place) awards from the Council on International Non-theatrical Events were announced for Smithsonian productions. The winners were "Magnificent Voyagers," "Reel Jungle" ("Tropical Rainforest" exhibit), "From Reliable Sources," and "The Smithsonian Institution," an interactive video for the Visitor Information Center. "Magnificent Voyagers" went on to represent the United States in the International Maritime Festival in Toulon, France. A record number of awards and citations from the broadcast and film industry were received during the year by the Office of Telecommunications.

August

Publication: Smithsonian Tropical Research Institute entomologist David W. Roubik published *Ecology and Natural History of Tropical Bees*, which presents a synthesis of the ecology, natural history, and evolution of tropical bees around the world, including their interaction with human populations.

August 10

Symposium: "Art and Controversy: Historical Perspectives, Current Issues," a four-speaker program that offered diverse opinions and discussions of this timely topic, was held at the Hirshhorn Museum and Sculpture Garden. The event, cosponsored by the Washington Project for the Arts, was moderated by Richard Andrews, former director of the Visual Arts Program of the National Endowment for the Arts.

August 15

Liaison: The Smithsonian Tropical Research Institute established a new liaison office in the Arts and Industries Building in order to provide more effective and timely interaction between the institute and the Smithsonian's Washington offices.

August 15-22

Expedition: A Smithsonian Research Expedition, "The Legacy of the Horse in Crow Culture," was conducted at the annual Crow Fair in Billings, Montana. Team members helped document the fair through written descriptions and photographs. The information gathered will be used in the National Museum of Natural History's upcoming "Seeds of Change" exhibition.

August 18

Exhibition: The first professionally designed and produced exhibition of the Smithsonian Tropical Research Institute, "Parting the Green Curtain: The Evolution of Tropical Biology in Panama," opened at the National Museum of Natural History. The bilingual exhibition, in Spanish and English, then traveled to Panama, where it was installed in the new Tupper Auditorium.

August 19

Meeting: Secretary Adams met in Santa Fe, New Mexico, with leaders of American Indian communities, museum professionals, and collectors of Native American art to share perspectives on the proposed National Museum of the American Indian.

August 23

Appointment: Dr. Forrest McGill, a specialist in the art of South and Southeast Asia, was named assistant director of the Arthur M. Sackler Gallery. Dr. McGill came to the Smithsonian from his post as director of the Museum of Art and Archaeology at the University of Missouri in Columbia.

August 30

Appointment: Dr. Elizabeth Broun was selected as director of the National Museum of American Art. An American art scholar, Broun served as assistant director and chief curator at the museum from 1983 until August 1988, when she was appointed acting director following the resignation of Dr. Charles C. Eldredge.

September

Research: The highest resolution X-ray images of a solar flare and the solar corona ever obtained were made by a Smithsonian Astrophysical Observatory/IBM telescope aboard a National Aeronautics and Space Administration sounding rocket launched from White Sands Missile Range in New Mexico.

September

Education: An activity book for high school students containing some two dozen hands-on experiments drawn from astronomy was developed at the Harvard-Smithsonian Center for Astrophysics by Project STAR in cooperation with staff science advisors.

September

Continuing Project: Progress continued on the Visitor Information and Associates' Reception Center exterior graphic information system with the installation of out-of-doors directional signs to the Anacostia Museum.

September

Transfer: The Intern, Orientation, and Registration Program was transferred from the Visitor Information and Associates' Reception Center to the Office of Museum Programs.

September

Program: The National Science Resources Center entered into a working partnership with twenty-one public schools in twelve districts around the country (plus the Department of Defense Dependents' School, Clark Air Base, in the Philippines) to field-test elementary science curriculum units under development by the Science and Technology for Children project.

September

Publication: *Hirshhorn WORKS 88* was published by the Hirshhorn Museum and Sculpture Garden, launching what is hoped to be an ongoing series of yearbooks on WORKS projects. Included were essays and photographs on the four site-specific projects by Sol LeWitt, Kate Ericson/Mel Ziegler, Vernon Fisher, and Krzysztof Wodiczko, respectively, executed between November 1987 and October 1988.

September

Film Series: The Museum of African Art launched the premiere of a thirteen-part film series, "Things Fall Apart," based on the highly acclaimed novel by Nigerian author Chinua Achebe. Lectures featuring prominent black scholars were offered in conjunction with the film.

September

Publication: The Office of Interdisciplinary Studies completed a publication called *Completing the Food Chain: Strategies for Combating Hunger and Malnutrition*, Neil G. Kotler and Paula M. Hirschhoff, editors. The book is second in a series of world food colloquia publications.

September

Milestone: The Office of Public Affairs prepared its first extensive publicity campaign in Spanish for Hispanic Heritage Month, including both newspaper and radio advertisements.

September

Videodisc: "The Smithsonian Institution," a state-of-the-art interactive video, was completed for the new Smithsonian Information Center to provide visitors with detailed information about the museums, activities for children, special tours, and restaurants.

September

Film: "The Earth in Our Hands," a one-hour film narrated by Robert Redford for national broadcast, was completed and premiered at the Second International Conference on Ecological Closed Systems in Krasnoyarsk, USSR.

September

System: The Office of Planning and Budget, in concert with other offices, completed a requirements statement, design, and initial development of the new personnel cost projection system. Software development was completed and an employee training manual was released. Two orientation sessions were held for bureau and office staff throughout the Institution.

September

Opening: The Office of Horticulture participated in the opening of the Louis Comfort Tiffany exhibition at the Renwick Gallery. Plant arrangements were planned to reflect those shown in Tiffany's glass creations and to establish the feeling of his home and the period of his work.

September

Acquisition: The Office of Horticulture purchased the important J. W. Fiske fountain, known as Centennial Fountain, with figures of children under an umbrella.

September 1

Birth: Giant Panda Ling-Ling gave birth to an undersized cub at the National Zoo. The cub was retrieved from its mother, who was being treated for a urinary/genital tract infection. Zoo veterinarians administered antibiotics and immune globulins to the cub to help it fight infection. Unfortunately, the cub died forty hours after birth.

September 3-17

Workshop: The Smithsonian Institution/Man and the Biosphere Program conducted its first training workshop in Ecuador. The lead coordinator in Ecuador was the Charles Darwin Foundation.

September 7

Acquisition: The National Museum of American Art acquired Louis Comfort Tiffany's "Market Day Outside the Walls of Tangier," a gift from the American Art Forum. One of the artist's most ambitious combinations of exotic anecdote, ethnographic detail, and sensuous color, this painting helped establish Tiffany's reputation in 1873 as a skilled observer of the Near East.

September 8

Conversation with Artists: Four artists whose works were included in the National Museum of American Art exhibition "The Patricia and Phillip Frost Collection: American Abstraction 1930-1945" discussed the development of American abstraction and its birth in a time of economic chaos, international upheaval, and the cataclysm of world war.

September 12

Press Conference: The Office of Public Affairs participated in the production of a press conference held at the Capitol with Secretary Adams, Senator Daniel Inouye, and Representative Ben Nighthorse Campbell on the Smithsonian's policy on repatriation of American Indian skeletal remains.

September 13-15

Workshop: The Office of Environmental Management and Safety, in coordination with the Smithsonian's Office of Museum Programs, conducted a three-day workshop geared specifically to small museums and other educational and cultural institutions located worldwide. This unique workshop addressed program development and problem-solving in the areas of fire protection, disaster planning, occupational safety and health, and environmental management.

September 14-15

Conference: The Office of External Affairs organized a conference titled "The Global Environment: Are We Overreacting?" to present an overview of global environmental issues to the leadership of the U.S. news media and to explore the roles of the news media and scientists in interpreting and disseminating environmental information to the general public.

September 15

Dialogue: The Woodrow Wilson International Center for Scholars collaborated with the project office for the "Caribbean Festival Arts" exhibition to present the first of four scholarly dialogues titled "The Importance of Carnival in Caribbean Culture."

September 16

Seminar: One hundred one Associates participating in the Smithsonian Associates Travel Program's eleventh annual Oxford-Smithsonian Seminar, led by Smithsonian Regent Jeannine Smith Clark, departed for England.

September 16

Demonstration: Five nationally recognized furniture makers demonstrated their skills and special techniques in an all-day Smithsonian Resident Associate Program seminar made possible by a grant from the Hechinger Foundation.

September 19

Seminar Series: The Office of Interdisciplinary Studies presented a seminar, "Oceans, Icons, and Genes: Ownership at Issue," as part of the "Ways of Knowing" series.

September 20

Publication: The Archives of American Art published *The Papers of African American Artists*, which describes the Archives' holdings of personal papers, sketchbooks, scrapbooks, and tape-recorded interviews of African American artists. The Archives holds papers of more than fifty African American artists dating from the late nineteenth century to the present.

September 20

Celebration: In celebration of Hispanic Heritage Month, the Smithsonian Resident Associate Program hosted the Washington premiere of one of the most respected bands from Central America, Yolocamba I Ta, who performed for an audience that included many members of the Hispanic community of Washington, D.C.

September 22-23

Special Event: The James Smithsonian Society's annual weekend was held in conjunction with the fall meeting of the National Board of the Smithsonian Associates. Gay F. Wray, chairman of the National Board, announced the projects receiving 1989 Society grants and awarded the Society's Founder Medal to Mercer Ellington for his donation of the Duke Ellington Collection to the National Museum of American History.

September 25

Acquisition: A bust of President George Bush, sculpted by Marc Mellon, was unveiled in the National Portrait Gallery's Hall of Presidents by Mrs. Vincent Melzac, who, with her husband, donated the bust to the gallery.

September 27

Special Event: The New England Regional Center of the Archives of American Art held an open house in the early nineteenth-century home that houses the Archives's Boston office. Tom L. Freudenheim, Smithsonian assistant secretary for museums, spoke at a seminar titled "The Impact of the Archives of American Art on the American Art World."

September 28

Film Series: The Hirshhorn Museum and Sculpture Garden's highly acclaimed free film program began the 1989-1990 season with screenings of art documentaries, independent or experimental productions, and animated shorts.

September 28

Lecture and Film Series: In preparation for a major exhibition and book on strategic bombing, the National Air and Space Museum launched a 16-month series of public lectures, symposia, and films--all dedicated to exploring the history and legacy of strategic bombing. The first speaker in the series was Phillip Morrison, a physicist on the Manhattan Project and a member of the first scientific team to visit the bombed city of Hiroshima in 1945.

September 29

Symposium: Cooper-Hewitt staff led a symposium sponsored by the Decorative Arts Association of the Cooper-Hewitt Museum and titled "Explorations: Interior Fabrics of the 1990s," which included lectures and a panel discussion by five internationally recognized designers, architects, and experts--Jack Lenor Larsen, Murray Bartlett, Hugh Hardy, Patricia Conway, and Pierre Paulin. The subject of the discussion was the role of fabrics in the design of public and private interiors in terms of issues and trends for the coming decade.

September 29

Exhibitions: Two new exhibitions in the Sea-Air Gallery of the National Air and Space Museum opened--"Carrier War in the Pacific" and "Squadron Ready Room." The first chronicles the six major carrier battles fought by the United States and Imperial Japanese navies during World War II. The second simulates a ready room for flight crews aboard an aircraft carrier.

September 30

Special Event: As part of an ongoing effort to strengthen ties between museums and schools across the United States, the Office of Elementary and Secondary Education conducted a Regional Workshop in Amarillo, Texas. The workshop brought together representatives from 33 museums, historic sites, and nature centers, as well as 450 teachers from the area.

Appendix I

Members of the Smithsonian Councils, Boards, and Commissions, September 30, 1989

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Appendix 2

Visitors to Smithsonian Institution Museums in Fiscal Year 1989

Month	Smithsonian Institution Building	Arts and Industries Building	Natural History Building	Air and Space Museum	Freer Gallery of Art	American Art and Portrait Gallery	Renwick Gallery	Totals
1988								
October	0	133,579	477,181	669,442	0	39,100	11,271	1,330,573
November	0	95,262	429,442	498,527	0	32,721	10,033	1,065,985
December	0	82,880	349,870	372,277	0	46,423	9,246	860,696
1989								
January	0	55,624	298,476	306,333	0	34,044	6,742	701,219
February	0	58,823	288,870	288,838	0	31,732	7,465	675,728
March	0	123,798	699,631	725,815	0	26,602	9,666	1,585,512
April	0	150,438	745,112	973,425	0	31,681	17,098	1,917,754
May	0	117,130	700,852	812,374	0	33,634	12,058	1,676,048
June	0	127,412	615,465	906,475	0	31,072	10,999	1,691,423
July	0	164,289	828,181	1,253,877	0	35,343	12,483	2,294,173
August	0	130,935	673,676	1,048,794	0	38,257	8,659	1,900,321
September	0	83,956	346,725	541,517	0	28,075	7,673	1,007,946
Totals	0	1,324,126	6,453,481	8,397,694	0	408,684	123,393	16,707,378

Month	Anacostia Neighborhood Museum	Cooper- Hewitt Museum	American History Museum	S. Dillon Ripley Center	Sackler Gallery	Hirshhorn Museum	African Art Museum	Totals
1988								
October	3,474	8,433	403,289	50,771	29,081	93,767	29,364	618,179
November	343	9,127	335,757	59,206	27,240	74,152	27,789	533,614
December	93	9,429	295,665	38,527	23,903	51,758	25,592	444,967
1989								
January	1,444	9,363	219,820	11,720	22,513	53,235	26,509	344,604
February	3,092	7,228	221,815	13,377	21,421	48,253	25,578	340,764
March	362	2,081	486,913	18,218	31,368	91,088	35,309	665,339
April	0	23,627	714,113	24,339	50,458	122,217	48,152	982,906
May	1,376	16,488	610,636	15,966	43,663	111,801	42,277	842,207
June	4,176	16,282	639,405	32,705	37,573	101,922	41,100	873,163
July	5,769	9,126	749,250	51,870	64,973	121,218	49,578	1,051,784
August	5,803	8,443	576,199	37,582	52,725	106,325	42,295	829,372
September	2,882	8,847	274,885	26,672	41,779	72,367	27,060	454,492
Totals	28,814	128,474	5,527,747	380,953	446,697	1,048,103	420,603	
GRAND TOTAL								24,688,769

NOTE: Totals for each museum reflect the number of individual visitors to that museum. Since many visitors include more than one museum on their itinerary, or go to various museums on several consecutive days, they are counted several times. The grand total, therefore, represents the aggregate of museum visitor counts, and is higher than the actual number of individual visitors to the Smithsonian Institution.

Appendix 3

Academic, Research Training, and Internship Appointments in Fiscal Year 1989

Listed immediately below in the first section of this Appendix, under the heading "Academic and Research Training Appointments," are Predoctoral and Postdoctoral Fellows, Graduate Student Fellows, Visiting Scientists or Scholars, and other special awardees and participants in special programs. This list was compiled by the Office of Fellowships and Grants. Interns, other academic appointees, and scholarly visitors are listed in the second section under the heading "Internships and Other Appointments." These entries were submitted by the Visitor Information and Associates' Reception Center.

ACADEMIC AND RESEARCH TRAINING APPOINTMENTS

The Smithsonian offers, through the Office of Fellowships and Grants, research and study appointments to visiting scientists, scholars, and students. The appointees are provided access to the Institution's facilities, staff specialties, and reference resources. The persons—listed by bureau or office—in this Appendix began their residencies between October 1, 1988, and September 30, 1989, and have been in residence for three months or longer. Predoctoral and Postdoctoral Fellows, Visiting Scientists or Scholars, and other special awardees and participants in special programs are so listed. The institution where each received, or expects to receive, a degree or the home university or institution is listed for each Fellow or Visitor. A brief description of the project undertaken at the Smithsonian is included where appropriate. The Fellow's or Visitor's Smithsonian advisor is also listed.

OFFICE OF INSTITUTIONAL STUDIES

Hilde Hein, Visiting Scholar, University of Michigan. "The Museum Experience: Reflections on Literature and Reality," with Zahava Doering, from September 1 to December 15, 1989.

JOSEPH HENRY PAPERS

Sandra Herbert, Senior Postdoctoral Fellow, Brandeis University. "Charles Darwin's Geology," with Marc Rothenberg and Arthur Molella, from February 1, 1989 to January 31, 1990.

Hugh Sloten, Predoctoral Fellow, University of Wisconsin, Madison. "Reform, Patronage, and Politics in American Science: Alexander Dallas Bache and the U.S. Coast Survey," with Marc Rothenberg and Nathan Reingold, from September 1, 1989 to August 31, 1990.

NATIONAL ZOOLOGICAL PARK

G. Agoramoorthy, Visiting Scientist, University of Jodhpur. "A Field Study to Investigate the Social Interactions within Invaded Groups of Red Howler Monkeys (*Alouatta seniculus*) in Venezuela," with Rudy Rudran, from April 15 to September 30, 1989.

Charles Menzel, Postdoctoral Fellow, University of California, Davis. "Experiments on Spatial Orientation in Leontopithecus Group," with Benjamin Beck, from September 1, 1989 to August 31, 1990.

Brian Miller, Postdoctoral Fellow, University of Wyoming. "Predator Avoidance and Hunting Ability Behavior for Reintroduction of Captive-Raised Black-Footed Ferrets," with Christen Wemmer, from June 1, 1989 to May 31, 1990.

William Rall, Research Development Fellow, State University of New York, New Paltz. "Basic and Applied Studies on the Cryopreservation of Gametes and Embryos from Endangered Wild Animals," with David Wildt, from March 1, 1989 to March 1, 1992.

Steven Thompson, Research Development Fellow, University of California, Irvine. "Evolution and Variation of Endothermy in Mammals: Thermoregulation, Locomotion, and Reproductive Consequences," with Devra Kleiman, from January 1, 1989 to July 1, 1990.

John Thorbjarnarson, Visiting Scientist, University of Florida. "Population Ecology of the Spectacled Caiman on Hato Masaguaral, Venezuela," with Dale Marcellini, from January 1 to July 31, 1989.

Samuel Wasser, Research Development Fellow, University of Washington. "Excreted Steroids in Mammalian Feces," with David Wildt, from January 1, 1989 to January 1, 1991.

Eric Wikramanayake, Postdoctoral Fellow, University of California, Davis. "Thermal and Reproductive Biology of Varnus Salvator and Varnus Bengalensis," with John Seidensticker, from January 1, 1989 to January 1, 1990.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

Javier Alcolea, Visiting Student, Universidad Autonoma de Madrid. "Circumstellar Envelopes of Stars and SiO Masers," with James Moran, from July 15 to October 31, 1989.

Gerald Bottrell, Postdoctoral Fellow, University of Georgia. "Investigations of the Adiabatic Approach and its Application to Other Systems," with Alexander Dalgarno, from September 1, 1989 to August 31, 1990.

- Andre Crusius-Watzel, Visiting Scientist, University of Bonn.
"Radiative Transfer in Relativistic Plasma," with James Moran, from August 15, 1989 to September 30, 1990.
- Ilya Fabrikant, Visiting Scientist, Latvian State University.
"Low-Energy Electron Scattering by Highly Polarizable Targets and Photodetachment of Negative Ions in the Presence of External Fields," with Alexander Dalgarno, from April 1 to July 31, 1989.
- Daniel Gomez, Postdoctoral Fellow, Universidad de Buenos Aires.
"Dynamical Processes in the Solar Corona," with Petrus Martens, from September 1, 1989 to August 31, 1990.
- Xiaofeng Han, Predoctoral Fellow, Harbin Institute of Technology.
"Measurements and Analysis of Unknown Atomic and Molecular Data," with Irwin Shapiro, from October 1, 1989 to September 30, 1990.
- Andreas Heithausen, Visiting Scientist, University of Bonn.
"Galactic Cirrus Clouds: A New Class of Interstellar Clouds?," with Patrick Thaddeus, from February 1 to September 30, 1989.
- William Hoffmann, Visiting Scientist. "Interpretation of Spectral Line Data: A Probe of the Physical Conditions in Circumstellar Material and Star Forming Regions," with Giovanni Fazio, from February 1 to June 15, 1989.
- Pawan Kumar, Visiting Scientist, California Institute of Technology. "The Detection of Stellar and Solar Oscillations," with Robert Noyes, from October 1, 1988 to March 11, 1989.
- Juan Muzzio, Senior Postdoctoral Fellow, La Plata University.
"The Disintegration of Satellite Galaxies," with Myron Lecar, from January 1 to March 31, 1989.
- Birgitta Nordstrom, Visiting Scientist, Copenhagen University Observatory. "Investigations of the Structure of the Galactic Disk," with David Latham, from December 1, 1988 to June 30, 1989.
- Marco Romoli, Visiting Scientist, University of Firenze. "The Development of Instrumentation for the Smithsonian Astrophysical Observatory's UVCS/Sotto Project," with John Kohl, from April 3, 1989 to October 2, 1990.
- Shen Wei, Visiting Scientist, Shaanxi Astronomical Observatory.
"Hydrogen Maser Frequency Standards," with Robert Vessot, from January 1 to September 30, 1989.
- Andrzej Soltan, Visiting Scientist, Warsaw University. "An Investigation of X-ray Properties of Extra-Galactic Objects," with Harvey Tananbaum, from July 1 to November 14, 1989.

John Stanford, Predoctoral Fellow, University of Georgia. "A Study of the Scattering of Heavy Ion Projectiles by Atoms," with Alexander Dalgarno, from September 1, 1989 to August 31, 1990.

Tang Guoqiang, Visiting Scientist, Chalmers University of Technology. "Differential VLBI Measurements of the Quasar 4C39.25," with Irwin Shapiro, from June 15 to September 28, 1989.

Sanjay Wagh, International Exchange Visitor, University of Poona. "CCD Studies of Active Galaxies and Quasars," with Martin Elvis, from March 15 to September 15, 1989.

John Wardle, Visiting Scientist, University of Manchester. "Dual Wavelength, Polarization Sensitive VLBI Experiment," with James Moran, from May 1 to September 30, 1989.

Ann Zabludoff, Visiting Student, Massachusetts Institute of Technology. "The Complex Dynamics of Large Structures, Clusters of Galaxies, and Superclusters," with M.J. Geller, from October 1, 1988 to August 31, 1989.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

Shiyue Cai, International Exchange Visitor, Zhejiang Agricultural University. "The Impact of Acid Atmospheric Deposition in the Physiology of the Root Hairs of Higher Plants," with David Correll, from March 29 to September 28, 1989.

Felix Dapare Dakora, Visiting Scientist, University of Western Australia. "The Effect of Elevated CO₂ Concentration in Nitrogen Metabolism of Marsh Plants in Natural Ecosystems of the Chesapeake Bay," with Bert Drake, from December 1, 1989 to November 30, 1990.

Lucia Dillenburg, Predoctoral Fellow, University of Maryland. "Physiological Ecology of Vine and Tree Competition," with Dennis Whigham, from November 14, 1988 to May 13, 1990.

Joseph Dineen, Jr., Postdoctoral Fellow, University of Maryland. "Investigation of Barnacle Larval Settlement Relevant to Adult Zonation in the Chesapeake Bay," with Anson Hines, from October 1, 1989 to September 30, 1990.

Anna Dittel, Postdoctoral Fellow, University of Delaware. "Microhabitat Selection for Molting by Blue Crab Juveniles (*Callinectes sapidus*) in the Rhode River Estuary, Chesapeake Bay," with Anson Hines, From September 10, 1989 to September 9, 1990.

- David Lawlor, Senior Postdoctoral Fellow, University of London. "Effects of Elevated Carbon Dioxide on the Structure, Composition, and Photosynthetic Function of *Scirpus* in a Salt Marsh Community," with Bert Drake, from April 1 to October 31, 1990.
- Junda Lin, Postdoctoral Fellow, University of North Carolina, Chapel Hill. "Effects of Food Supply on *Macoma Balthica*'s Feeding Mode, and Its Subsequent Susceptibility to Predation," with Anson Hines, from August 14, 1989 to August 13, 1990.
- Nancy Staub, Postdoctoral Fellow, University of California, Berkeley. "Patterns of Sexual Dimorphism and their Ecological Consequences in Plethodontid Salamanders," with James Lynch, from April 3, 1989 to April 2, 1990.
- Panchabi Vaithiyanathan, Postdoctoral Fellow, Jawaharlal Nehru University, India. "Factors Controlling the Release of Phosphorus from Sediments to Water in the Estuarine Region: A Case Study of the Rhode River Estuary," with David Correll, from September 1, 1989 to August 31, 1990.
- Joseph T. A. Verhoeven, Senior Postdoctoral Fellow, University of Nijmegen, The Netherlands. "Nitrogen Cycling along an Environmental Gradient: Mineralization in Relation to Litter Quality and Redox Conditions," with Dennis Whigham, from January 15 to December 15, 1989.
- Lisa K. Wagner, Visiting Scientist, University of California, Berkeley. "Regulation of Fruit and Seed Production in Hibiscus moscheutos (Malvaceae): Role of Resources and Predation," with Dennis Whigham, from June 14 to September 12, 1989.
- Zhigang Wang, Postdoctoral Fellow, University of Cambridge. "Population Ecology of Epifagus Virginiana," with Dennis Whigham, from October 1, 1989 to September 30, 1990.
- Jess Zimmerman, Postdoctoral Fellow, University of Utah. "The Function of Storage Organs in the Orchid Tipularia iscolor," with Dennis Whigham, from August 1, 1989 to July 31, 1990.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- Jacqueline Belwood, Postdoctoral Fellow, University of Florida. "The Role of Tremulation in the Mating Behavior of Neotropical Pseudophylline Katydid (Insecta: Orthoptera: Tettigoniidae)," with Egbert Leigh, from March 1, 1989 to February 28, 1990.

- Jeffrey Brawn, Postdoctoral Fellow, Northern Arizona University. "The Influences of Physical Isolation on Geographic Variation within Selected Bird Species on Panama's Pearl Islands," with Harilaos Lessios, from January 1, 1989 to January 1, 1990.
- Laurel Collins, Postdoctoral Fellow, Yale University. "Effects of Environmental Change on the Shallow-Water Benthic Foraminifera of Panama," with Jeremy Jackson, from October 1, 1988 to May 30, 1990.
- Timothy Collins, Postdoctoral Fellow, Yale University. "Rates of Molecular Evolution in Marine Gastropods," with Harilaos Lessios, from May 25, 1989 to May 24, 1990.
- Kevin Hogan, Visiting Scientist, University of Illinois. "Ecophysiology of Geographic Ally Wide-Ranging Plant Species," with Alan Smith, from December 1, 1988 to January 31, 1990.
- Roberto Ibanez, Predoctoral Fellow, University of Connecticut. "Synchronized Calling in Centronella granulosa and Smilisca sila (Amphibia, Anura)," with A. Stanley Rand, from September 1, 1989 to December 31, 1990.
- Kenneth Johnson, Predoctoral Fellow, University of Iowa. "Testing for Natural Selection on Corals: Patterns of Skeletal Morphology, Fertility, and Genetic Variation in Natural Populations of Manicina Areolata (Scleractinia)," with Nancy Knowlton, from October 1, 1989 to September 30, 1990.
- Kaoru Kitajima Okada, Predoctoral Fellow, University of Illinois. "A Community-Wide Study of Tropical Tree Seedlings: the Ecological Consequences of the Structure/Physiology Relationships of Cotyledons," with Alan Smith, from June 1, 1989 to May 31, 1990.
- Noris Salazar, Postdoctoral Fellow, University of Alberta. "A Systematic Revision of the Neotropical Species of Octoblepharum, a Pantropical Moss Genus with Ecological and Reproductive Biology Studies of Two Species in Panama," with Alan Smith, from March 1, 1989 to March 1, 1990.
- Ellen Smith, Predoctoral Fellow, University of Washington. "The Evolution of Parental Care: A Multidisciplinary Approach in Some Dendrobatid Frogs," with A. Stanley Rand, from June 1, 1989 to May 31, 1990.
- Hugh Sweatman, Visiting Scientist, Macquaire University. "An Investigation of Sea Grass Beds as Habitats for Coral Reef Fishes," with Ross Robertson, from November 15, 1988 to September 30, 1990.

Ernesto Weil, Predoctoral Fellow, University of Texas, Austin.
"Morphologic and Genetic Variation of Porites (Anthozoa, Scleractinia) Across the Isthmus of Panama," with Nancy Knowlton, from June 1, 1989 to May 31, 1990.

ARTHUR M. SACKLER GALLERY

Massoud Azarnoush, Postdoctoral Fellow, University of California, Los Angeles. "1) Excavations at Hajibad, the Final Report, 2) Pre-Islamic Architecture of Iran, and 3) the Chronology of the Kusann-Sasanians," with Ann Gunter, from August 1, 1989 to July 31, 1990.

Akiko Murakata, Senior Postdoctoral Fellow, George Washington University. "Charles L. Freer and Japanese Art," with Wilcomb Washburn and Ann Yonemura, from July 1 to September 30, 1989.

Wheeler Thackston, Jr., Rockefeller Fellow, Harvard University. Research on Old and New English Translation of Chaghatay Turkish and Persian Texts of the Emperor Babur's Memoires, with Milo Beach, from June 1 to September 1, 1989.

CONSERVATION ANALYTICAL LABORATORY

Stephen Collins, Postgraduate Conservation Intern, John F. Kennedy University. "Changes in Crystallinity of Constrained Fibers Due to the Presence of Moisture," with Mary Ballard, from August 15, 1989 to August 14, 1990.

Robert Henrickson, Postdoctoral Fellow, University of Toronto. "Organization of Ceramic Production in the Godin III Tradition of Central Western Iran, 2600-1400 B.C.," with M. James Blackman and Pamela Vandiver, from September 15, 1989 to December 14, 1990.

Julie Lauffenburger, Postgraduate Conservation Intern, Buffalo State College. "The Effects of Past Treatments on Metal Objects and How it Has Affected the Analysis of Museum Objects," with Carol Grissom, from September 18, 1989 to September 17, 1990.

Janet Schrenk, Postdoctoral Fellow, University of Minnesota. "Technical Analysis of Benin Bronzes in the National Museum of African Art," with David Von Endt, from April 1, 1989 to March 31, 1990.

Yoonjoo L. Strumfels, Postgraduate Conservation Intern, University of Delaware. "Conservation Problems with Paper and Photographs," with Antoinette Dwan, from January 3, 1989 to January 2, 1990.

Aslihan Yener, Postdoctoral Fellow, Columbia University. "The Archaeometallurgy of Ancient Anatolia," with Martha Goodway, from January 1 to December 31, 1989.

COOPER-HEWITT MUSEUM

Sarah Dove, Postgraduate Conservation Intern, Newcastle Polytechnic. "The History of Use, Manufacture, and Other Factors that Contribute to the Uniqueness of an Object and/or Problems of Deterioration," with Konstanze Bachmann, from July 1, 1989 to June 30, 1990.

Esther Methe, Postgraduate Conservation Intern, University of Alberta. "Analysis of a Select Group of Sixth to Tenth Century Middle Eastern Textiles," with Lucy Commoner, from October 3, 1988 to October 2, 1989.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Lynne C. Cooke, Postdoctoral Fellow, University College. "Developments in American Sculpture c. 1968-1988," with Ned Rifkin, from October 1, 1989 to March 31, 1990.

Roberta Tarbell, Senior Postdoctoral Fellow, University of Delaware. "The Sculpture of Seymour Lipton: Aesthetic, Iconographic, Contextual, and Technical Considerations," with Valerie Fletcher, from January 3 to June 3, 1989.

NATIONAL AIR AND SPACE MUSEUM

Tami Davis Biddle, Predoctoral Fellow, Yale University. "Air Power Doctrine, Strategic Bombing, and the Development of Air Force Strategy from the Interwar Years to the Early Cold War Years," with Dominick Pisano, from January 1 to December 31, 1989.

Ron Dick, International Fellow, Royal College of Defence Studies. "Fifty Years of Jet Aviation," with Martin Harwit and Von Hardesty, from October 1, 1988 to September 30, 1990.

Daniel Ford, A. Verville Fellow, University of New Hampshire. "Japanese Army Air Operations in Burma and Western China, December 1941 - July 1942," with Donald Lopez and Robert Mikesh, from July 10, 1989 to July 9, 1990.

Randall Forsythe, Senior Postdoctoral Fellow, Columbia University. "Tectonic Studies in the Martian Equatorial Transition Zone: A Search for Ancient Lithospheric Mobility," with James Zimbelman, from May 15, 1989 to June 30, 1990.

David Hallam, International Fellow, Canberra College of Advanced Education. "The State of Modern Metal Corrosion and the Conservation of Large Aircraft," with Robert Mikesh, from February 1 to November 1, 1989.

Takehiko Hashimoto, Guggenheim Fellow, Johns Hopkins University.
"The Origin of Aerodynamics: A Comparative Approach," with
John Anderson and Howard Wolko, from June 1, 1989 to March
31, 1990.

Lee Kennett, Lindbergh Fellow, University of Virginia. "The
History of Military Aviation in World War I," with Donald
Lopez, from September 1, 1989 to August 31, 1990.

David Naylor, Visiting Scientist, The University of Calgary.
"Laboratory Development of a Metal Mesh Testing Facility,"
with Howard Smith, from July 1, 1989 to July 1, 1990.

Michael Neufeld, Postdoctoral Fellow, Johns Hopkins University.
"Peenemunde and Wernher von Braun," with Joseph Tatarewicz,
from August 15, 1989 to February 14, 1990.

Yuri Salnikov, International Fellow, Soviet State Cinema
Institute. "The History of Soviet-American Relations in
Aviation," with Von Hardesty and Cathleen Lewis, from
February 3 to November 2, 1989.

NATIONAL MUSEUM OF AFRICAN ART

Mary Nooter, Predoctoral Fellow, Columbia University. "Luba Art
and Statehood: Political Symbols and Strategies in a
Central African Kingdom," with Roy Sieber, from May 15,
1989 to May 14, 1990.

Nkiru Nzegwu, Postdoctoral Fellow, University of Ottawa.
"Looking Through African Eyes," with Roy Sieber, from
January 15 to April 15, 1989.

NATIONAL MUSEUM OF AMERICAN ART

Karen Blair, Postdoctoral Fellow, State University of New York,
Buffalo. "American Associations of Women Painters, 1870-
1930," with Lillian Miller, from October 3, 1988 to
September 2, 1989.

Nicholas Capasso, Predoctoral Fellow, Rutgers University. "The
National Vietnam Veterans Memorial and the Impact of Post-
Minimalism on American War Memorials," with George Gurney,
from June 1, 1989 to May 31, 1990.

Jane Clark, Visiting Scholar, University of London. "Landscape
and National Identity: A Comparative Study of Painting in
Nineteenth Century America and Australia," with Lois Fink,
from May 1, 1989 to June 15, 1990.

Nancy Corwin, James Renwick Senior Fellow, Kansas City Art
Institute. "A Critical History of Fiber Art as Part of the
Post World War II Crafts Revival in America," with Michael
Monroe, from October 1, 1988 to September 30, 1990.

Eleanor Jones, Predoctoral Fellow, Yale University. "The Language of Art: Landscape Oil Sketches in America, 1830-1870," with William Truettner, from October 1, 1988 to September 30, 1989.

Matthew Arvid Kangas, Senior Postdoctoral Fellow, Oxford University. "Two Aspects of American Ceramics: Sculpture, Text," with Michael Monroe, from October 1, 1989 to May 31, 1990.

Jonathan Katz, Predoctoral Fellow, Northwestern University. "Sexuality in the Art of Jasper Johns and Robert Rauschenberg, 1957-1962," with Virginia Mecklenburg and Harry Rand, from February 1 to December 9, 1989.

Patricia Malarcher, James Renwick Graduate Fellow, New York University. "An Investigation of Critical Approaches to Art in Craft Materials," with Michael Monroe, from January 1 to September 30, 1989.

Janet Marstine, Predoctoral Fellow, University of Pittsburgh. "Themes of Labor and Industry in American Mural Painting, 1893-1914," with Richard Murray, from March 1, 1989 to February 28, 1990.

David McCarthy, Visiting Student, University of Delaware. "Compromised Positions: Situations for the Nude in American Art of the 1960s and 1970s," with Virginia Mecklenburg, from September 1, 1989 to August 31, 1990.

Frederick Moffatt, Senior Postdoctoral Fellow, University of Chicago. "George G. Barnard's Bronze Statue of Abraham Lincoln," with Lois Fink, from July 1, 1989 to June 30, 1990.

Michael Plante, Predoctoral Fellow, Brown University. "American Painting and Postwar Paris, 1945-1956," with Harry Rand, from April 15, 1989 to April 14, 1990.

NATIONAL MUSEUM OF AMERICAN HISTORY

Kimn Carlton-Smith, Predoctoral Fellow, Rutgers University. "Cultural Democracy and Constructions of Community," with Charles McGovern and Barbara Melosh, from July 1, 1989 to June 30, 1990.

Melinda Chateauvert, Predoctoral Fellow, University of Pennsylvania. "Marching Together: Woman of the Brotherhood of Sleeping Car Porters," with Edith Mayo, from September 1, 1989 to May 31, 1990.

Marsha Darling, Faculty Fellow, Duke University. "The Evolution of Images of Black and White Women in Hollywood Cinema," with Spencer Crew, from June 1 to September 30, 1989.

- Kathryn Fuller, Predoctoral Fellow, Johns Hopkins University. "A Nation of Movie-Goers: The American Middle Class Movie Audience, 1914-1934," with Charles McGovern, from September 11, 1989 to September 10, 1990.
- Stuart Goosman, Predoctoral Fellow, University of Washington. "The Ethnomusicology of Black Group Vocal Harmony, 1945-1960," with Bernice Reagon, from July 1, 1989 to June 30, 1990.
- Robert La Bret Hall, Postdoctoral Fellow, Florida State University. "The Atlantic Slave Trade and the Genesis of American Culture, 1526-1807," with Spencer Crew, from June 1, 1989 to May 31, 1990.
- Delores Harvey, Faculty Fellow, University of Maryland. "A Study of the Lesser Known Abolitionists in Northeastern Cities," with Spencer Crew and James Horton, from June 15 to September 14, 1989.
- Katherine Jellison, Predoctoral Fellow, University of Iowa. "Choice and Change in the Heartland: Farm Women and Technology, 1913-1963," with Pete Daniel, from June 1 to November 30, 1989.
- Jeffrey Lena, Predoctoral Fellow, University of California, Berkeley. "Noah Webster and the Development of American Culture in the Early Republic," with Keith Melder, from October 1, 1988 to June 30, 1989.
- Mary Beth Pudup, Postdoctoral Fellow, University of California, Berkeley. "Rural Resources and Subsistence Livelihoods in Appalachia," with Pete Daniel, from August 15, 1989 to August 14, 1990.
- Thompson Smith, Predoctoral Fellow, Yale University. "Ecological and Cultural History of the Flathead Indian Reservation Area, 1850-1940," with Rayna Green, from September 1, 1989 to August 31, 1990.
- Rudi Volti, Senior Postdoctoral Fellow, Rice University. "The Development and Triumph of the Four-Stroke Internal Combustion Engine: Two Studies," with Robert Post, from September 1, 1989 to June 30, 1990.
- Shirley Wajda, Graduate Student Fellow, University of Pennsylvania. "Dramatis Personae: The Re-Presentation of American Victorians in Turn-of-the-Century Comic and Genre Stereoviews," with Pete Daniel, from October 10, 1988 to March 15, 1989.
- Kimberley Webber, University of Sydney. "The American Influence on the Social Construction of the Australian Kitchen, 1850-1930," with Rodris Roth, from January 1 to December 31, 1989.

Xiao-huang Yin, Predoctoral Fellow, Harvard University. "Dreams from Gold Mountain: Chinese American Literature and its Socio-Cultural Context," with Gary Kulik, from September 1 to November 30, 1989.

NATIONAL MUSEUM OF NATURAL HISTORY

Cleber Alho, Short-Term Visitor, University of North Carolina, Chapel Hill. "The Vertebrate Scientific Collection of the University of Brasilia and its Science Museum," with Charles Handley, from April 1 to July 31, 1989.

Julie Ambler, Visiting Scientist, Texas A&M University. "Life History of *Dioithona oculata* Occuring Near Red Mangrove Prop Roots," with Frank Ferrari, from December 1, 1988 to June 15, 1989.

Altair Barbosa, Visiting Scientist, Universidade Catolica de Goias. "The Pre-Ceramic Period of the Central Brazilian Plains," with Betty Meggers, from June 1, 1989 to May 31, 1991.

Paula Bienenfeld, Visiting Scientist, State University of New York, Binghamton. "Analysis of the Community Structure of a Prehistoric Chiefdom in Eastern North America," with Bruce Smith, from August 1, 1989 to July 31, 1991.

Juliet Brodie, Postdoctoral Fellow, University College, Galway. "An Investigation into the Systematics and Life History of Members of the Genus *Liagora* (Rhodophyta) from the Caribbean," with James Norris, from September 18, 1989 to September 17, 1990.

Robyn Burnham, Visiting Scientist, University of Washington. "Seeing the Forest in the Litter: A New Method of Inferring the Structure of Extinct Vegetation from Fossils," with Scott Wing, from January 1 to December 31, 1989.

Jeanne Chaussonnet, Predoctoral Fellow, Institut d'Etudes Politiques de Paris. "Ethnic Processes and Political Development Among Siberian and Northern Canadian Peoples in the Twentieth Century," with William Fitzhugh, from September 1, 1989 to August 31, 1990.

James Clark, Postdoctoral Fellow, University of Chicago. "Phylogenetic Relationships of Eusuchian Crocodylians," with Nicholas Hotton, from April 10, 1989 to April 9, 1990.

James Cobb, Visiting Scientist, St. Andrews University. "An Electrophysiological and Behavioral Investigation of the Ophiuroid Photoreceptor System," with David Pawson, from February 1 to May 1, 1989.

- Bryan Danforth, Predoctoral Fellow, University of Kansas.
 "Phylogeny of the Macrotera Group of Perdita (Hymenoptera: Andrenidae) with Special Reference to the Evolution of Male Head Allometry," with Ronald McGinley, from March 1, 1989 to April 30, 1990.
- Ferial Deer Skye, Academic Intern, University of South Dakota.
 Menominee Tribal Catalogue, with JoAllyn Archambault, from July 3 to October 27, 1989.
- A. Dilly Devi, Postdoctoral Fellow, University of Delhi. "The Evolution of Culture in an Island Society: An Ecological Approach," with Paul Taylor, from June 1, 1989 to May 31, 1990.
- Walentina De Weerd, Postdoctoral Fellow, University of Amsterdam. "Taxonomy, Phylogeny, and Cladistic Biogeography of Caribbean Chalinidae (Porifera, Haplosclerida)," with Klaus Ruetzler, from October 10, 1988 to January 7, 1990.
- Joseph Dishta, Native American Community Scholar, Pueblo of Zuni Job Training Partnership. A Tribal Catalogue of Zuni Manuscripts, with JoAllyn Archambault, from March 20 to November 10, 1989.
- Karen Dohm, Postdoctoral Fellow, Washington State University. "Predicting Population from Architectural Nucleation and House Size for Pueblos in the Southwestern United States," with Dennis Stanford, from December 1, 1988 to November 30, 1989.
- Maria Louella Dolar, Short-Term Visitor, James Cook University. "The Biology of Philippine Marine Mammals," with James Mead, from February 1 to May 15, 1989.
- George Effman, Native American Community Scholar, United South and Eastern Tribes, Inc. A Tribal Catalogue of Klamath Artifacts, with JoAllyn Archambault, from March 20 to November 10, 1989.
- Aaron Ellison, Visiting Scholar, Brown University. "Potential Facilitations Between Sponges and Red Mangroves (Rhizophora mangle)," with Klaus Ruetzler, from January 1 to May 15, 1989.
- Per Ericson, Visiting Scientist, University of Stockholm. "The Fossil Bird Presbyornis and its Significance to the Evolution and Systematics of Birds," with Storrs Olson, from September 1, 1989 to August 31, 1990.
- Raymond Forster, Senior Postdoctoral Fellow, University of Otago, New Zealand. "Review of the Spider Superfamily Araneoidea," with Jonathan Coddington, from July 15 to December 15, 1989.

- Amnon Freidberg, Visiting Scientist, Tel Aviv University.
 "Systematic Research on Old World Fruit Flies, Especially Important Pest Species of the Genera *Ceratitis* and *Dacus*," with Wayne Mathis, from October 3, 1988 to October 2, 1989.
- Ronald Fritzsche, Visiting Scientist, University of California, San Diego. "Survey of the Ichthyo Fauna of Twin Cays, Belize," with G. David Johnson, from November 1, 1988 to May 15, 1989.
- Jon Gelhaus, Postdoctoral Fellow, University of Kansas.
"Systematics and Biogeography of the *Tipula* (*Lunatipula*) *Tergata* Species Group (Diptera: Tipulidae)," with Wayne Mathis, from January 16, 1989 to January 15, 1990.
- Marian Hansson, Visiting Scholar, University of Oklahoma. "The Kiowa at the Smithsonian or Getting the Collection Back to the People," with William Merrill, from December 1, 1988 to August 31, 1989.
- Valerie Haskins, Predoctoral Fellow, Washington University.
 "Health and Disease of the Archaic Shell Mound Inhabitants along the Green River, Kentucky," with Donald Ortner, from March 1, 1989 to February 28, 1990.
- Peter Heaney, Postdoctoral Fellow, Johns Hopkins University. "X-Ray Powder Diffraction of Microcrystalline Silica Varieties," with Jeffrey Post, from July 24, 1989 to July 23, 1990.
- Gordon Hendler, Visiting Scientist, The University of Connecticut. "An Electrophysiological and Behavioral Investigation of the Ophiuroid Photoreceptor System," with David Pawson, from February 1 to May 1, 1989.
- Teruaki Ishii, Senior Postdoctoral Fellow, University of Tokyo.
 "Petrological and Mineralogical Studies of Modern and Ancient Submarine Arc-Volcanism and Arc-Evolution along the Hakone-Izu-Ogasawara Arc," with Richard Fiske, from June 1, 1989 to March 31, 1990.
- Paul Koch, Postdoctoral Fellow, University of Michigan. "The Effects of Weathering on the Carbon and Oxygen Isotope Composition of Bone," with Anna Kay Behrensmeyer, from September 18, 1989 to September 17, 1990.
- Carey Krajewski, Postdoctoral Fellow, University of Wisconsin, Madison. "A Molecular Systematic Study of the Extinct Tasmanian Wolf (*Marsupialia: Thylacinidae*)," with Michael Braun, from August 1, 1989 to July 31, 1990.
- Kim Lanphear, Postdoctoral Fellow, State University of New York, Albany. "The Health of Southern Slaves Compared to that of the Laboring Population of the Northeastern U.S.," with Douglas Owsley, from September 1, 1989 to August 31, 1990.

- Brian Lapoint, Visiting Scientist, University of South Florida.
 "The Nutrient Status and Physiological State of Macroalgae from Low Nutrient Mangrove Ecosystem versus a High Nutrient Mangrove Ecosystem," with Mark Littler, from January 1 to March 1, 1989.
- Li Zhen-yu, Short-Term Visitor, Institute of Botany, Academia Sinica. "A Study of Gesneriaceae and Identification of Lentibulariaceae and Cactaceae," with Laurence Skog, from July 1 to September 30, 1989.
- Richard Lowell, Postdoctoral Fellow, University of Alberta.
 "Induced Biomechanical and Chemical Responses of Marine Macroalgae to Herbivore Damage," with Mark Littler, from October 1, 1988 to September 30, 1989.
- Gregory Mayer, Postdoctoral Fellow, Harvard University.
 "Phylogeny, Geographic Variation, and the Origin of Ecomorphs in Jamaican Lizards of the Genus Anolis," with George Zug, from March 20, 1989 to March 19, 1990.
- Lucile McCook, Postdoctoral Fellow, Cornell University.
 "Phylogenetic Analysis of Cyprapedioid and Apostasioid Orchids: A New Approach to a Major Conflict in Orchid Systematics," with Vicki Funk, from February 1, 1989 to January 31, 1990.
- Richard Modlin, Visiting Scientist, University of Connecticut.
 "Swarming Dynamics and Ecology of Mysidium Species," with Frank Ferrari, from January 1 to July 15, 1989.
- Susan Nahwoosky, Visiting Scholar, Keuka College. Comanche Tribal Catalogue, with JoAllyn Archambault, from May 22 to October 6, 1989.
- Yun Sil Park, Postdoctoral Fellow, Duke University.
 "Phylogenetic Study of Lichen Family Parmeliaceae," with Mason Hale, from March 1, 1989 to February 28, 1990.
- Thomas Parsons, Visiting Scientist, University of Washington.
 "Phylogenetic Analysis of Extinct Birds Based on Nucleotide Sequence Comparison," with Michael Braun, from January 1, 1989 to September 30, 1990.
- Manuel L. Pescador, Faculty Fellow, Florida State University.
 "Systematics of the Cool-Adapted Mayflies (Ephemeroptera) of South America," with Oliver Flint, from June 12 to September 12, 1989.
- Thomas Plummer, Predoctoral Fellow, Yale University.
 "Paleoecology and Site Formation of Kanjera, Kenya," with Richard Potts, from January 1 to December 31, 1989.

- Dan Polhemus, Postdoctoral Fellow, University of Utah.
 "Systematics and Zoogeography of Neotropical Rhagovelia
 (Insecta: Hemiptera: Veliidae)," with Richard Froeschner,
 from December 1, 1988 to November 30, 1989.
- Kenneth Rasmussen, Postdoctoral Fellow, University of North
 Carolina, Chapel Hill. "Marine Biolithic Hardgrounds of
 Northern Great Bahama Bank: Genesis, Development, and
 Geological Significance," with Ian MacIntyre, from
 September 1, 1989 to August 31, 1991.
- Susan Rasmussen, Postdoctoral Fellow, Indiana University. "A
 Balancing Act: Artistic Form and Sociopolitical Power in
 Tuareg Aesthetics and Cosmology," with Mary Jo Arnoldi,
 from June 1, 1989 to May 31, 1990.
- Cynthia Rebar, Short-Term Visitor, Kansas State University. "A
 Study of Relative Brain Size in the New World Family of
 Rodents, Heteromyidae," with Don Wilson, from January 1 to
 May 15, 1989.
- Janet Reid, Senior Postdoctoral Fellow, North Carolina State
 University. "Copepoda (Crustacea) from Semiterrestrial
 Habitats in Central Brazil," with Thomas Bowman, from
 October 1, 1988 to September 30, 1989.
- Judith Rhymer, Postdoctoral Fellow, Florida State University.
 "Evolutionary Relationships in the Mallard Complex Using
 Restriction Enzyme Analysis of Nuclear DNA," with Michael
 Braun and Eugene Morton, from September 1, 1989 to August
 31, 1991.
- Clive Roberts, Postdoctoral Fellow, Victoria University,
 Wellington, New Zealand. "A Survey of the Ctenoid Scale
 Morphology in Percomorph Fishes and Analysis of its
 Phylogenetic Significance," with G. David Johnson, from
 March 1, 1989 to February 28, 1990.
- Jorge Rodriguez, Visiting Scientist, Universidad Nacional de La
 Plata. "Relations between Precolumbian Cultures of North
 Eastern Argentina and the Tropical Lowlands to the North,"
 with Betty Meggers, from May 1, 1989 to April 30, 1990.
- Gene Sattler, Visiting Student, University of Maryland.
 "Breeding Introgression in Chickadee Contact Zones," with
 Michael Braun, from January 1, 1989 to December 31, 1990.
- Patricia Sawaya, Visiting Student, University of Cincinnati.
 "A Molecular Investigation of Speciation in the Chickadees
Parus carolinensis and Parus atricapillus," with Michael
 Braun, from November 14, 1988 to June 13, 1990.

- Ziang-qing Shao, Short-Term Visitor, Fudan University. "A Comparative Study of Crania at the Neolithic Stage in the Xinjian Uygur Autonomous Region with American White Crania and other Crania," with Douglas Ubelaker, from June 5 to September 5, 1989.
- Anthony Shelton, Predoctoral Fellow, University of Oxford. "A General Ethnography of the Huichol of Northwest Mexico," with William Merrill, from March 20, 1989 to March 19, 1990.
- Penelope Shepard, Visiting Student, University of Victoria. "The Presence of Chemoautotrophic Endosymbiotic Bacteria in Lucinid and Solemyid Bivalves and the Relationship of the Symbiosis to Available Sulfur Species in Sea Grass and Mangrove Habitats," with Klaus Ruetzler, from January 1 to September 30, 1989.
- John Stevely, Visiting Scientist, University of South Florida. "Survey of the Commercial Sponge Resources of Belize," with Klaus Ruetzler, from March 1 to September 30, 1989.
- Wolfram Tertschnig, Visiting Scientist, University of Vienna. "Distributional Ecology and Nutrition of two Sea Urchin Species in Thalassia Testudinum Sea Grass Beds at the Twin Cays Mangal System and the Adjacent Lagoon," with Klaus Ruetzler, from January 1 to March 1, 1989.
- Elisabeth Tooker, Senior Postdoctoral Fellow, Radcliffe College. "The Smithsonian and the Anthropological Community in the Nineteenth Century," with William Sturtevant, from September 1, 1989 to February 28, 1990.
- Charles Wahle, Visiting Scientist, Johns Hopkins University. "The Functional Morphology of Octocoral Spicules at Carrie Bow Cay," with Klaus Ruetzler, from February 1 to September 30, 1989.
- Banyue Wang, Senior Postdoctoral Fellow, Institute of Vertebrate Paleontology and Paleoanthropology, Academia Sinica, China. "The Intercontinental Relationships between the Holarctic Oligocene," with Robert Emry, from September 13, 1989 to September 12, 1990.
- Susan Weller, Postdoctoral Fellow, University of Texas. "Revision of Dasylophia and Betola with an Assessment of Phylogenetic Relationships within the Subfamily Notodontinae (Lepidoptera: Noctuoidea: Notodontidae)," with Mary Mickevich and Robert Robbins, from September 1, 1989 to August 31, 1990.
- Richard Werbner, Senior Postdoctoral Fellow, Manchester University. "Person, Knowledge, and Evil in Divination," with William Merrill, from September 1, 1989 to August 31, 1990.

- Brian Wiegmann, Curatorial Fellow, University of Maryland. "A Phylogenetic Revision of the Family Atelestidae with a Proposed Origin of the Cyclorrhaphous Diptera," with Wayne Mathis, from October 1, 1988 to September 30, 1990.
- Colin Woodroffe, Visiting Scientist, Cambridge University. "Mapping of Central Belize Barrier Reef from Satellite Imagery," with Klaus Ruetzler, from January 1 to September 30, 1989.
- Rose Wyaco, Native American Community Scholar, Zuni Archives Program. Zuni Tribal Catalogue, with JoAllyn Archambault, from October 31, 1988 to October 18, 1989.
- Qui-Yun Xiang, Short-Term Visitor, Chongshan University of Guangzhou. "A Comparative Study of the Cornus Species of Asia and the Cornus Species of North America," with Richard Eyde, from April 1 to June 30, 1989.
- Man-Miao Yang, Curatorial Fellow, University of Maryland. "Problems in the Evolution of Behavior in the Homoptera," with Jonathan Coddington, from October 1, 1988 to September 30, 1990.
- Melinda Zeder, Visiting Scientist, University of Michigan. "Powers Phase: Faunal Analysis," with Bruce Smith, from August 14, 1989 to August 13, 1990.
- Karen Zeller, Predoctoral Fellow, University of Cincinnati. "The Phylogenetic Relationship of Humans and the Higher Primates," with Michael Braun, from January 1, 1989 to December 31, 1990.

NATIONAL PORTRAIT GALLERY

- Robert Janson-La Palme, Visiting Scholar, Princeton University. "Annotations for Publication of Complete Autobiographical Manuscript of Charles Wilson Peale," with Lillian Miller, from May 22, 1989 to January 31, 1990.

OFFICE OF FOLKLIFE PROGRAMS

- David Brown, Postdoctoral Fellow, Yale University. "Topics in Black Atlantic Culture and Creolization," with Nicholas Spitzer, from January 15 to November 30, 1989.
- Christopher Lornell, Postdoctoral Fellow, Memphis State University. "Folk Music -- American Music and the Folkways Collection," with Anthony Seeger, from November 1, 1988 to July 31, 1990.

OTHER BUREAU APPOINTMENTS

CONSERVATION ANALYTICAL LABORATORY

Jorge Cuni, Fulbright Scholar. "1) Encaustic Painting, Roman, Greek and Modern and 2) Solvent Effects on Picture Cleaning," with Jia-Sun Tsang and David Erhardt, from September 25, 1989 to August 24, 1990.

FREER GALLERY OF ART

Kathleen Emerson-Dell, Freer Fellow, University of Michigan. Research on Japanese Ceramics, from November 1, 1988 to June 30, 1989.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

Short-Term Fellowships in Tropical Biology

Ranjit J. Daniels, Short-Term Fellow, Indian Institute of Science. "Landscape Heterogeneity: Patch Size, Organization, and Vertebrate (Birds and Reptiles)," with Dr. A. Stanley Rand, from September 25 to December 18, 1989.

Emmett Duffy, Short-Term Fellow, University of North Carolina. "The Dynamics of Commensalism in Reef Invertebrates," with Nancy Knowlton, from October 1 to December 20, 1988.

Brian Fisher, Short-Term Fellow, University of Utah. "Interaction Between Pachychondyla and Cecronia," with Donald M. Windsor, from August 10 to November 20, 1989.

Matthew Gompper, Short-Term Fellow, University of Tennessee. "The Social Structure of the Coati (Nasua narica): Genetic Structure, Relatedness, and Causes of Gregariousness and Apparent Altruism," with Nicholas Smythe, from August 1 to December 31, 1989.

Jonathan Losos, Short-Term Fellow, University of California, Berkeley. "Ecology, Behavior, and Performance of Anolis Lizards," with A. Stanley Rand, from November 17 to December 12, 1988.

Simon Nemptzov, Short-Term Fellow, State University of New York at Stony Brook. "Ecotypic Variation in the Social System and Mating Behavior of Caribbean Razorfish," with D. Ross Robertson, from June 1 to August 31, 1989.

Risa Rosenberg, Short-Term Fellow, University of Stockholm. "Butterfly Flight Height Stratification," with Donald M. Windsor, from February 19 to May 19, 1989.

David Zeh, Short-Term Fellow, University of Arizona. "Study of Sexual Selection in Pseudoscorpions," with William Eberhard, from October 1, 1988 to September 30, 1989.

Latin American and Exxon Fellowships

Jorge Alejandro Ahumada, Short-Term Fellow, Universidad de los Andes. "A Study of the Social Behavior of the Black Handed Spider Monkey (Ateles geoffroyi) at Barro Colorado Island," with Katherine Milton, Neal G. Smith and A. Stanley Rand, from October 14, 1988 to January 15, 1989.

Gloria Almanza, Exxon Fellow, University of Panama. "Inventario Herpetologico de la Serrania del Tute," with A. Stanley Rand and V. Martinez, from October 10, 1988 to March 31, 1989.

Emerita Borace, Short-Term Fellow, Universidad Autonoma de Mexico. "Inventory and Feeding Habits of Acaros Canestrinidae in 15 Species of Chrysomelidae-Cassimidae (Insecta)," with Donald M. Windsor, from July 3 to September 30, 1989.

Rosana Dosman, Exxon Fellow, University of Panama. "Variacion Genetica de la Poblacion de Hydrilla verticillata (L.F.) Royle en el Lago Gatun," with Harilaos Lessios and Jorge Briceno, from October 10, 1988 to January 10, 1989.

Idalia Fernandez, Exxon Fellow, University of Panama. "Nutricion de Larvas de Mitrax spinosissimus," with John Christy, from January 2 to November 15, 1989.

Natalia Gomez, Exxon Fellow, University of Bath. "Chemically Mediated Morphogenesis and Army Ant Raid Pattern," with Hindrik Wolda and Egbert G. Leigh Jr., from June 22 to September 30, 1989.

Alejandro Farji, Short-Term Fellow, University of Buenos Aires. "Dinamica Espacial de la Busqueda y Explotacion de Parches Nuevos en Atta cephalotes," with Donald M. Windsor, from August 1 to October 31, 1989.

Carlos Fitzgerald, Short-Term Fellow, Hunter College, City University of New York. "Analisis Zooarqueologico de Muestras de El Cano, Panama Central," with Richard Cooke, from January 1 to June 30, 1989.

Juan Diego Lopez, Short-Term Fellow, Universidad Javeriana. "Predatory Fishes Trophodynamics of Crab Larvae (Brachyura) on Rock Intertidal and Estuarine Environments," with D. Ross Robertson, from April 1 to September 30, 1989.

Martin E. Mitre, Exxon Fellow, University of Panama.

"Descomposicion y Relacion Longitud-Peso de Hydrilla verticillata en Poblaciones de la Isla de Barro Colorado, Lago Gatun," with Mireya Correa, from October 10, 1988 to July 1, 1989.

Abdiel Rodriguez, Exxon Fellow, University of Panama.

"Inventario Herpetologico de la Serrania del Tute," with A. Stanley Rand and V. Martinez, from October 10, 1988 to March 31, 1989.

Pedro Zapata, Exxon Fellow, University of Panama. "Nutricion de Larvas del Mithrax Spinossisimus," with John Christy, from February 1 to November 15, 1989.

INTERNSHIPS AND OTHER APPOINTMENTS

The Smithsonian offers internships and other appointments to visiting undergraduate and graduate students and museum professionals. The interns—listed by bureau or office—in this Appendix began their appointments between October 1, 1988, and September 30, 1989. Holders of special awards and participants in special programs are so listed. Where possible, the institutions attended, a brief description of the project undertaken, and the duration of the appointment are given for each intern.

BUSINESS MANAGEMENT OFFICE

Colleen McCracken, Bachelors Candidate, James Madison University. Product Development/Licensing, assisted in market research and product development, May 15, 1989 through August 18, 1989

Alessandra Yi, Bachelors Candidate, James Madison University. Product Development/Licensing, conducted collections research for product development, May 30, 1989 through August 18, 1989.

INTERNATIONAL CENTER

Mark Bartley, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, April 17 through June 2, 1989.

Michael Bruchmann, Bachelors Degree. Foreign Affairs, reviewed and synthesized information on interrelationship of environmental and economic issues, September 18, 1989 through December 31, 1989.

Angela Erdrich, Bachelors Degree. Quincentenary Planning Office, conducted research for the American Indian Outreach Project, March 13, 1989 through June 7, 1989.

Julia Gomez, Bachelors Candidate, Dartmouth College. Quincentenary Program, performed research; assisted with newsletter, March 27, 1989 through June 9, 1989.

- Sarah Joseph, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, May 15 through June 2, 1989.
- Christopher McIntyre, Bachelors Degree. Quincentenary Program, assisted in the production of the Quincentenary Program newsletter, July 10, 1989 through September 1, 1989.
- Rudolph Mendes, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, May 15, through June 2, 1989.
- Vincent Miller, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, May 15, through June 2, 1989.
- Wendy Mingin, Bachelors Candidate, Virginia Polytechnic Institution and State University. Quincentenary Planning Office, assisted work with databases and with various Quincentenary projects, February 6, 1989 through April 28, 1989.
- Brenda Mveng, Masters Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, April 17, through June 2, 1989.
- Heidi Nielsen, Bachelors Candidate, Ohio State University. Man and the Biosphere Program, assisted in developing the program newsletter, June 12, 1989 through September 1, 1989.
- Michaela Pilar-Brown, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, May 15, through June 2, 1989.
- Angela Puig, Bachelors Degree. Quincentenary Program, assisted the Quincentenary Program with photo archive and library research, July 5, 1989 through August 31, 1989.
- Nadia Rabesahala, Bachelors Candidate, George Mason University. Office of International Relations, developed programs and guidelines to support the data base project and developed background for the Madagascar programs, August 2, 1989 through December 15, 1989.
- Rodney Reynolds, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, May 15, through June 2, 1989.
- James Sharper, Bachelors Candidate, Howard University. Caribbean Festival Arts exhibition, assisted with graphics design and installation of the exhibition, May 15, through June 2, 1989.

JOSEPH HENRY PAPERS

- Cassandra Kniffin, Bachelors Candidate, Yale University. Conducted research for current and future volumes of The Papers of Joseph Henry, June 6, 1989 through July 26, 1989.

NATIONAL ZOOLOGICAL PARK

- Ilze Berzins, PhD. Pathology, received training in Pathology, June 19, 1989 through September 30, 1989.
- Agustus Bosley, Jr., Bachelors Candidate, Howard University. Department of Mammalogy, conducted ethno-botany research, October 17, 1988 through April 1, 1989.
- Kyra Caspary, High School Graduate. Golden Lion Tamarin Project, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Caron DeLancy, Bachelors Candidate, Howard University. Department of Mammalogy, conducted ethno-botany research, October 17, 1988 through April 1, 1989.
- Jennine Gardiner, Bachelors Candidate, Northern Virginia Community College. Office of Design and Exhibits Planning, assisted with photographic archival preservation, November 1, 1988 through December 31, 1988.
- Renita Jagan, Masters Candidate, Hood College. Invertebrates, assisted with the cuttlefish breeding program and daily operations of department, January 1, 1989 through February 28, 1989.
- Robert Lee, Bachelors Candidate, Georgetown University School of Medicine. Worked on developing artificial insemination techniques in the domestic ferret which can be used to enlarge the population of the rare black-footed ferret, June 5, 1989 through August 25, 1989.
- Natalie Marine, Bachelors Candidate, American University. Office of Design and Exhibits Planning, organized and archived photo collection using proper preservation techniques, February 27, 1989 through January 31, 1990.
- Nancy McCorpin, High School Graduate. Small Mammal House, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Wayne Salvador, Jr., High School Graduate. Department of Animal Health, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Mark Stickney, High School Graduate. Small Mammal House, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Melissa Thornley, High School Graduate. Publications Office, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Shawn Tolman, High School Graduate. Golden Lion Tamarin Project, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Eric Van Kirk, High School Graduate. Primate House, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

Dianna Yankee, High School Graduate. Invertebrate Exhibits, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

- Sarah Barnum, Bachelors Degree. Studied interactions between plants and mammals in a forest ecosystem, August 28, 1989 through March 23, 1989.
- Denise D'Abundo, Bachelors Degree. Conducted research on the effects of rising carbon dioxide concentrations on vegetation and ecosystem processes, September 11, 1989 through December 15, 1989.
- Elizabeth Dolph, Bachelors Candidate, Whitman College. Conducted research on microzooplankton grazing on fluorescently labeled algae, May 22, 1989 through July 28, 1989.
- Heather Lair, Bachelors Candidate, Miami University. Studied acid deposition and its impact upon geochemistry, May 15, 1989 through August 25, 1989.
- Mary Lammert, Bachelors Candidate, Yale University. Lead participants on nature trails through forest, field and marshland and canoe tours of Muddy Creek and surrounding wetlands. Also assisted teachers in conducting activities that teach basic ecologic concepts., May 22, 1989 through August 4, 1989.
- Earl Larson, Bachelors Degree. Conducted research on "Estuarine Fish Biology", February 13, 1989 through May 10, 1989.
- Eugene Mei, Bachelors Candidate, University of California, Berkeley. Studied the forest canopy to understand the biota environment and ecology of the tree tops, September 11, 1989 through December 22, 1989.
- Corinne Miles, Bachelors Degree. Documented floristic and structural changes in vegetation during forest development, August 28, 1989 through October 13, 1989.
- Stacey Morgan, Bachelors Candidate, Arizona State University. Studied the community structure and population dynamics of phytoplankton in a estuary, June 5, 1989 through August 11, 1989.
- Mary Poteet, Bachelors Candidate, North Carolina State University. Examined complex interactions within a model food web containing representative fishery species and common forage species, May 8, 1989 through August 25, 1989.
- Mark Van Oorschot, Bachelors Degree. Studied nitrogen and phosphorus mineralization in riparian ecosystems, April 3, 1989 through August 18, 1989.
- Ana Villegas, Bachelors Degree. Conducted research on the effects of rising carbon dioxide concentration on vegetation and ecosystem processes, April 17, 1989 through July 7, 1989.
- Wendy Wagner, Bachelors Candidate, Drew University. Studied habitat utilization by migratory warblers, June 5, 1989 through August 25, 1989.
- James Watkins, Bachelors Degree. Studied the release of nutrients from subtidal sediments, June 5, 1989 through September 15, 1989.

- Pamela Westgate, Bachelors Candidate, Hampshire College. Studied the forest canopy to understand the biota, environment and ecology of the tree tops, May 29, 1989 through September 1, 1989.
- Steven Wu, Bachelors Candidate, Harvard College. Studied ecological factors regulating abundance and distribution of juvenile blue crabs as a limiting life stage for the fishery in upper Chesapeake Bay, June 5, 1989 through September 8, 1989.

SMITHSONIAN INSTITUTION ARCHIVES

- Lisa Carlucci, Masters Candidate, University of Maryland. Arranged and described the Division of Mammals Biographical Files and other collections, October 3, 1988 through May 19, 1989.
- Elizabeth Joffrion, Masters Degree. Conducted research on the Oral History Project and Video History Project, July 10, 1989 through September 15, 1989.
- Monica Von Drasek, Bachelors Candidate, University of Maryland. Photo Survey Project, completed an archival project to rehouse, arrange and describe architectural drawings from the collections, January 9, 1989 through September 30, 1989.

SMITHSONIAN INSTITUTION LIBRARIES

- Zoe Lindsay, High School Graduate. Museum Reference Center, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Robert McBride, Masters Candidate, George Mason University. Special Collections, created an inventory of Audubon materials, November 8, 1988 through February 1, 1989.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- Denise Alvarez, Bachelors Degree. Barro Colorado Island, analyzed the ecological consequences of structure-physiology relationships of cotyledons through comparison of various tropical woody species, July 3, 1989 through September 25, 1989.
- Fernando Arosemena, Bachelors Degree. Barro Colorado Island, monitored population dynamics and habitat use in birds and ecology of vertebrates of forest undergrowth on BCI and Gigante Peninsula, July 24, 1989 through October 15, 1989.

- Sandra Bos, Bachelors Degree. Ancon, assisted with the population genetics and avian extinction Tropical Forest Isolate project, May 1, 1989 through
- Ewa Nowacka Chiari, Bachelors Degree. Archaeology Laboratory, cleaned, mended and measured human skeletons from two archaeological sites in Central Panama, October 17, 1988 through January 9, 1989.
- Roberto Cordero, Bachelors Degree. Barro Colorado Island, assisted with a study measuring photosynthesis, respiration and transpiration of tropical forest plants, January 1, 1989 through March 31, 1989.
- Janna Ellingson, Phd Candidate, University of Texas. Gamboa, assisted in a study of reproductive behavior and communication in physalaemus pustulosus, June 30, 1989 through August 31, 1989.
- Yolanda Gamarra, Bachelors Degree. Gamboa, assisted in a project to study the evolution of sexual dimorphism in Neotropical pseudoscorpions, January 16, 1989 through April 16, 1989.
- Pedro Lozada, Bachelors Degree. Entomological Laboratory, assisted with the taxonomic study of Cicadellinae project, May 1, 1989 through July 31, 1989.
- Viterbo Rodriguez, Bachelors Degree. Ancon and Barro Colorado Island, conducted research on the reproductive biology of Chelymorpha alternans, July 3, 1989 through September 25, 1989.
- Oris Sanjur, Bachelors Candidate, Universidad de Panama. Naos Marine Laboratory, assisted with the protein electrophoresis of fish, sea-urchins, isopods and gorgonians project, May 1, 1989 through July 24, 1989.
- Cibeles Marla Somarriba, Bachelors Degree. Ancon, assisted with the functional morphology of male and female reproductive systems as it relates to the mechanism of sperm precedence in the tortoise beetle, Chelymorpha alternans, January 16, 1989 through April 14, 1989.
- Mario Sousa, Bachelors Degree. Ancon, assisted in a study involving Urania moths and their larval food plant, Omphalea diandra, January 15, 1989 through April 15, 1989.
- Jesus Armando Ugalde, Bachelors Degree. Assisted with research on the precedence of spermatozooids of two species of Altica, September 1, 1988 through December 1, 1988.
- Paolino Velotti, Bachelors Degree. San Blas Field Station, assisted with research on environmental variation in colony morphology and behavior of Manicina areolata (Linneaus), October 7, 1988 through December 31, 1988.
- Luis Manuel Vargas, Bachelors Candidate, Universidad de Panama. Barro Colorado Island, provided research support for preparation of illustrated flora of seedlings of Panamanian moist forest with emphasis on Barro Colorado, April 3, 1989 through July 10, 1989.

ANACOSTIA MUSEUM

- LaNeysa Harris, Masters Candidate, University of Washington, Seattle. Education, developed audio tape and conducted educational activities for "The Real McCoy: African-American Inventors and Innovator, 1619-1930" exhibition, June 12, 1989 through August 18, 1989.
- Tressa Wood, High School Graduate. Education, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

ARCHIVES OF AMERICAN ART

- Jenny Hoffman, Bachelors Candidate, Emory University. Prepared descriptions of Archives' collections containing information about the inter-relationship between French and American art, as preparation for a guide to be published in 1990, June 20, 1989 through August 11, 1989.
- Frederick LaManna, Bachelors Candidate, American University. Studied collections and prepared description for inclusion in a guide to French-American sources in the holdings, September 15, 1989 through December 12, 1989.
- Amy McIntyre, Bachelors Candidate, American University. Prepared descriptions of Archives' collections containing information about the inter-relationship between French and American art, as preparation for a guide to be published in 1990, February 2, 1989 through April 30, 1989.
- Kathryn Nowicki, Bachelors Candidate, Gettysburg College. Studied collections and prepared description for inclusion in a guide to French-American sources in the holdings, September 15, 1989 through December 15, 1989.
- Olga Ulloa-Herrera, Masters Degree. Prepared descriptions of Archives' collections containing information about the inter-relationship between French and American art, as preparation for a guide to be published in 1990, May 10, 1989 through August 25, 1989.

ARTHUR M. SACKLER GALLERY AND FREER GALLERY OF ART

- Sandra Antholt, Bachelors Candidate, Mount Holyoke College. Office of Public Affairs, prepared an archive on "A Jeweler's Eye: Islamic Arts of the Book from the Vever Collection" exhibition, January 3, 1989 through January 24, 1989.
- Susan Antholt, Bachelors Candidate, Mount Holyoke College. Office of Public Affairs, archived publicity for "Timur and The Princely Vision: Persian Art and Culture in the 15th Century" and other exhibits, May 24, 1989 through August 15, 1989.

- Cristina Firouz, Bachelors Candidate, Corcoran School of Art. Design and Production, assisted in production of graphic artwork and illustration for special exhibitions, July 5, 1989 through September 1, 1989.
- Linda Kleeman, Bachelors Candidate, Oberlin College. Chinese Art, assisted with collection management and research, January 5, 1989 through January 30, 1989.
- Elizabeth Krebs, Bachelors Candidate, College of William and Mary. Chinese Art, assisted in basic research on Chinese Art collections and in answering public inquiries, May 15, 1989 through July 2, 1989.
- Lorna Kundert, Masters Candidate, University of Maryland. Library, gained experience in cataloging, September 5, 1989 through December 12, 1989.
- Andrew Leung, Masters Candidate, New York University Institute of Fine Arts. Assisted with Gellatly Collection and Kizil Fresco fragments, June 6, 1989 through September 8, 1989.
- Jodi Lox, Bachelors Candidate, Yale University. American Art, researched Peacock Room decoration, Whistler's design and decoration's influence on Anglo-American decorative arts, June 6, 1989 through August 14, 1989.
- Sharon Misik, Masters Candidate, George Washington University. Education Department, studied museum interpretation, January 9, 1989 through April 20, 1989.
- Shaalini Ranasinghe, Bachelors Candidate, McGill University. Prepared materials for school and public programs held in association with The Noble Partch exhibition, June 5, 1989 through August 18, 1989.
- Beng-Meng Sun, Masters Candidate, University of Maryland. Library, assisted with cataloging duties, September 11, 1989 through December 1, 1989.
- Ching-Ming Tzu, Masters Candidate, University of Maryland. Library, assisted with library administration, January 31, 1989 through May 10, 1989.
- Kim Umemoto, Bachelors Candidate, Tufts University. Office of Public Affairs, assisted in preparation of press material and mailing list for "Yani: The Brush of Innocence," May 20, 1989 through June 23, 1989.
- Eunice Verstegen, Bachelors Candidate, University of Washington. Public Affairs, assisted with archiving exhibits and with media contacts, September 11, 1989 through December 15, 1989.

CONSERVATION ANALYTICAL LABORATORY

- Priscilla Anderson, Bachelors Candidate, Yale University. Surveyed, treated and conducted research on paper collections, June 16, 1989 through August 11, 1989.
- Carrie Beyer, Masters Candidate, George Washington University. Surveyed, treated and conducted research on paper collections, June 16, 1989 through July 28, 1989.
- Andrea Bowes, Bachelors Candidate, Sir Sandford Fleming College. Textile Conservation, received practical training on various topics including exhibition preparation, cleaning, dyeing for restoration and dye analysis, September 1, 1989 through April 30, 1990.

- John Childs, Bachelors Degree. Conducted research on consolidants for plaster archaeological objects, October 31, 1988 through June 30, 1989.
- Shannon Elliott, Bachelors Degree. Worked on the Flag Preservation Project: examined, cataloged, restored, treated and conducted research on wool flags from 19th Century, June 5, 1989 through August 11, 1989.
- LaTasha Harris, Bachelors Candidate, Philadelphia College of Textiles and Science. Conservation, worked in the Textile Conservation Laboratory in conjunction with the wool flag project, June 5, 1989 through August 25, 1989.
- Philippe Lafargue, Masters Candidate, Ecole Boulle. Characterized materials pertinent to the discipline of furniture conservation and application of this theoretical knowledge to that discipline, June 1, 1989 through August 31, 1989.
- Muhammadin Razak, Visiting Museum Professional, National Museum of Indonesia. Textiles, prepared dyes for Schwebbe Dye Analysis Course, June 1, 1989 through September 15, 1989.
- Helen Young, Masters Candidate, University of Delaware. Surveyed, treated and conducted research on paper collections, June 16, 1989 through August 11, 1989.

COOPER-HEWITT MUSEUM OF DESIGN AND DECORATIVE ARTS

- Lisa Agosto, Bachelors Degree. Library, assisted with collection maintenance and reviewed and itemized collection of auction catalogs, July 5, 1989 through August 25, 1989.
- Jennifer Bahssin, Bachelors Candidate, State University of New York at Purchase. Drawings and Prints, assisted with inventory and cataloging of collection, September 11, 1989 through December 21, 1989.
- Assunta del Priore, Bachelors Degree. Edinburgh University. Director's Office, researched the Carnegie Mansion and the history of 19th century art historical teaching in American and performed archival work for new introductory gallery, June 12, 1989 through August 18, 1989.
- Sarah Dove, Masters Degree. Paper Conservation, performed research project in paper conservation, July 1, 1989 through June 30, 1989.
- Fennemiek Gommer, Bachelors Candidate, Academie voor Beeldende Kunsten. Exhibition Design, assisted with exhibition installation, October 3, 1988 through December 14, 1988.
- Ingrid Kummer, Museum Professional, Museum Fur Angewandte Kunst. Development Office, conducted research for "L'Art de Vivre" exhibition, November 7, 1988 through April 24, 1989.
- Ann Leibowitz, Bachelors Degree. Decorative Arts, conducted research for "L'Art de Vivre" exhibition, November 9, 1988 through April 1, 1989.
- Gwen Loeffler, Bachelors Candidate, Adelphi University. Development Office, conducted fundraising activities, January 3, 1989 through May 1, 1989.
- Susanne Loomis, Bachelors Degree. Drawings and Prints, assisted with collection management, January 3, 1989 through May 31, 1989.

- Esther Methe, Masters Degree. Textiles, assisted with textile conservation, October 3, 1988 through October 1, 1989.
- Sandee Miller, Bachelors Degree. Paper Conservation, assisted in paper conservation, June 12, 1989 through August 18, 1989.
- Caroline Naphegyi, Bachelors Candidate, Ecole du Louvre. Decorative Arts, Conducted research in cataloging collection and exhibitions, July 10, 1989 through August 31, 1989.
- Monika Platzer, Bachelors Degree. Drawings and Prints, assisted installation planning of "Views of Rome" exhibition, researched Wiener Werkstatte Textile Collection, and assisted in archival cataloguing and collection management, June 12, 1989 through August 18, 1989.
- Ann Portell, Bachelors Candidate, University of Pennsylvania. Textiles and Library, conducted textile research and assisted library management, June 5, 1989 through July 28, 1989.
- Alison Prendiville, Bachelors Degree. Director's Office, researched Calder sculpture in New York for exhibition brochure, May 7, 1989 through September 8, 1989.
- Tricia Rose, Bachelors Degree. Library, organized museum's vertical file of clippings and pamphlets, June 12, 1989 through August 18, 1989.
- Tamara Schlesinger, Bachelors Candidate, Columbia University. Decorative Arts, assisted with collections management, January 3, 1989 through January 20, 1989.
- Laura Shoaf, High School, Miss Porters School. Textiles and Library, assisted with photography of collection and library management, January 4, 1989 through February 2, 1989.
- Jomo Simmons, Bachelors Degree. Library, assisted with collections maintenance and reviewed and itemized collection of auction catalogs, July 5, 1989 through August 25, 1989.
- Nancy Turrell, Bachelors Candidate, New York University. Development Office, conducted fundraising research, January 24, 1989 through May 31, 1989.
- Craig Van Blarcom, Bachelors Candidate, St. Olaf College. Development Office, researched funding prospect and assisted with membership services, June 12, 1989 through August 18, 1989.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

- Michelle Arkin, Bachelors Candidate, Bryn Mawr College. Education, performed various tasks such as working with docents, assisting in the development of educational materials and learning to give tours, June 5, 1989 through August 11, 1989.
- Veronique Bernard, Masters Degree. Education, worked on tours and all aspects of the Department of Education, July 6, 1989 through August 15, 1989.
- Christina Hough, Bachelors Degree. Public Information, assisted in writing press releases, working openings, and helping with a seminar on museum work and training, June 12, 1989 through August 18, 1989.

Bonnie Kramer, Bachelors Degree. Exhibits, assisted in arranging and exhibiting works of art and learned about labelling methods and dry mounting, June 19, 1989 through August 18, 1989.

Brenda Plakans, Bachelors Candidate, University of Iowa. Curatorial Department, assisted curators Valerie Fletcher and Judith Zilczer with research on permanent collection archives, June 12, 1989 through August 18, 1989.

Christine Splinter, Masters Candidate, University of Bonn. Education, assisted with teaching docents, February 22, 1989 through April 15, 1989.

NATIONAL AIR AND SPACE MUSEUM

Richard Boyd III, Associates Candidate, Embry-Riddle Aeronautical University. Preservation/Restoration Division, assisted with preservation/restoration projects in support of museum's collections management program, January 17, 1989 through August 18, 1989.

Stefanie Brachfeld, Bachelors Candidate, University of Rochester. Center for Earth and Planetary Studies, researched origin of modern surface features from Viking orbiter data, June 12, 1989 through August 11, 1989.

Robert Brazzle, Bachelors Candidate, Bucknell University. Laboratory for Astrophysics, assisted in analysis of astronomical data on star formation and active galaxies and participated in laboratory tests using infrared and optical techniques, June 5, 1989 through August 11, 1989.

Kristine Conner, Bachelors Candidate, University of Pennsylvania. Public Affairs, prepared weekly news digest and assisted with promotion of new exhibition openings and Apollo 11 Twentieth Anniversary activities, June 5, 1989 through August 11, 1989.

Timothy Cronen, Bachelors Candidate, Belmont Abbey College. Information Management Division, assisted with standardization of NASM's computer database for videodisc photographs of aerospace personalities and aircraft and with NASM's special subject collections, June 5, 1989 through August 11, 1989.

Christopher Damrosch, Bachelors Candidate, University of Maryland. Aeronautics Department, worked with data on the NASM aircraft model collections, June 5, 1989 through August 11, 1989.

Guillaume de Syon, Masters Candidate, George Washington University. Aeronautics Department, assisted with obtaining, accessioning, preserving, and storing artifacts such as flight clothing, memorabilia, and armament, January 17, 1989 through April 18, 1989.

John Eckstine, Masters Candidate, George Washington University. Collections Maintenance, assisted with a reconciliation of the Registrar's records with the artifact inventory records, January 3, 1989 through March 31, 1989.

Kelly Evans, Bachelors Candidate, Texas A&M. Archives, reviewed and repaired microfilm, cross-checked indexes, reorganized and rehoused drawings collections and prepared processing plans, September 11, 1989 through November 20, 1989.

Robert Flanagan, Bachelors Degree. Exhibits, designed and produced posters, publications, and general signage, September 11, 1989 through December 11, 1989.

Kristin Gannett, Bachelors Candidate, Wartburg College. Information Management, assisted in standardization of NASM's computer database for videodisc photographs of aerospace personalities and aircraft and special subject collection, June 5, 1989 through August 11, 1989.

Renee Geary, Bachelors Candidate, Gallaudet University. Photography Laboratory, assisted daily operations, January 23, 1989 through May 2, 1989.

Lily Giordano, Bachelors Candidate, Yale University. Aeronautics Department, assisted with research on WWI aircraft collection, particularly French aircraft, June 5, 1989 through August 11, 1989.

Terry Hammond, Masters Degree. Art Unit, researched copyright status of NASM's art collection, July 5, 1989 through August 11, 1989.

Christy Hesby, Bachelors Candidate, Mary Washington College. Information Management Division, assisted in the accessioning of donations to the Museum's collections, January 17, 1989 through April 24, 1989.

Gaochang Huang, Masters Candidate, George Mason University. Office Automation and Information Management, assisted with inventory of software and hardware and with novel network installation, June 5, 1989 through August 11, 1989.

Sir Johnson, High School, Crossland High School. Collections Maintenance, assisted with artifact inventory and restoration of artifacts, July 11, 1989 through August 22, 1989.

Victoria Johnson, Associates Candidate, Embry-Riddle Aeronautics University. Preservation/Restoration Division, assisted in restoration and preservation of air and spacecraft in NASM collections, May 22, 1989 through August 18, 1989.

Francis Kiger III, Bachelors Candidate, West Chester University. Center for Earth and Planetary Studies, mapped tectonic features of the floor of the Olympus Mons Caldera and constructed a digital mosaic using high-resolution Viking orbiter images, June 5, 1989 through July 28, 1989.

Lutz Koppen. Bachelors Candidate, George Washington University. Collections Maintenance Division, worked with data on the NASM aircraft model collections, June 5, 1989 through August 11, 1989.

Robert Leach, Bachelors Degree. Exhibits Production, applied graphic art materials to exhibits areas and structures, January 17, 1989 through March 2, 1989.

Rebecca Leake, Bachelors Candidate, Virginia Polytechnical Institute and State University. NASM Archives, assisted with repair and preservation of microfilm, and review of Wright Field Collections, June 5, 1989 through August 11, 1989.

Allison Levy, Bachelors Candidate, Tulane University. Office of Education, Produced artwork for various projects, including slide sets, brochures and workshop packages, June 12, 1989 through July 31, 1989.

Michael Liu, Bachelors Candidate, Cornell University. Space History and Center for Earth and Planetary Studies, researched the technology of satellite design and mapped tectonic features of the floor of the Olympus Mons Caldera, June 5, 1989 through August 11, 1989.

- Mark Lott, Bachelors Candidate, Gallaudet University. Archives, assisted with repair and preservation of microfilm and reorganization of aircraft drawings, June 5, 1989 through August 12, 1989.
- Timothy Maloy, Masters Candidate, University of Maryland. Restoration/Preservation Division, assisted with preservation and restoration program, assembly of air and spacecraft artifacts, installation of artifacts and machining, welding, fabric work and chemical cleaning, June 5, 1989 through August 11, 1989.
- Ellen Mansfield, Masters Candidate, Gallaudet University. Exhibits Production and Design, designed sign system for Arts and Industries Building and assisted with installation of new gallery and silkscreening for interpretive panels, January 17, 1989 through August 11, 1989.
- Trina Maslowski, Bachelors Candidate, Corcoran School of Art. Department of Exhibits, assisted in typesetting label scripts, proofreading galleys, updating computer records and making photostats, June 5, 1989 through August 11, 1989.
- John McGinnis, Bachelors Candidate, Embry-Riddle Aeronautical University. Preservation/Restoration, performed tasks of a technical nature, September 11, 1989 through December 11, 1989.
- Kevin McKeon, High School Graduate. Preservation/Restoration, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Richard Murphy, Bachelors Candidate, Centenary College. Archives, assisted in repair and preservation of microfilm, reorganization of aircraft drawings and review of Wright Field Collections, June 5, 1989 through August 11, 1989.
- Michael O'Campo, High School Graduate. Office of Plant Services, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Scott Ortman, Bachelors Candidate, Stanford University. Collections Maintenance, assisted with preservation of NASM aircraft engine and collections, June 19, 1989 through September 19, 1989.
- Carol Patt, Masters Candidate, University of Maryland. Library, assisted with evaluation of the quality and value of the Library collection, January 17, 1989 through May 5, 1989.
- Daniel Pendick, Bachelors Candidate, State University of New York at Binghamton. Office of Museum Programs, researched appropriate films for NASM's Strategic Bombing Program and the Space Fiction Film Series, June 5, 1989 through August 11, 1989.
- Radhika Philip, Bachelors Candidate, Smith College. Collections Management, prepared label text for artifacts at the Paul E. Garber Facility, January 4, 1989 through February 1, 1989.
- Thomas Ratcliffe, High School Graduate. Space History Department, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- William Robie, Masters Candidate, East Carolina University. Aeronautics, prepared Morehouse Geographics for publication, September 11, 1989 through December 11, 1989.

- Thomasina Sai-Yee Seah, Bachelors Candidate, Gallaudet University. Exhibits Department, designed brochures, programs, and posters, January 17, 1989 through May 2, 1989.
- Laurence Shear, Bachelors Candidate, George Washington University. Office Automation, wrote DBaseIII code for museum projects and assisted personal computer users, October 11, 1988 through May 5, 1989.
- Alex Spencer, Masters Candidate, Pennsylvania State University. Aeronautics, worked on Sherman Fairchild Archives and upgraded aerial photographic archives, September 11, 1989 through November 20, 1989.
- Kevin Sturgill, High School Graduate. Preservation/Restoration, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Leikun Teferra, Masters Candidate, University of Maryland. Science and Exploration, conducted research on the space history of the Soviet Union, February 6, 1989 through December 11, 1989.
- Lori Vermaas, Bachelors Candidate, University of Texas at Austin. Space History Department, assisted in evaluating and modifying software for interactive computer programs for the "Beyond the Limits" Gallery, June 5, 1989 through August 11, 1989.
- Steven Weidenkopf, High School Graduate. Archival Support Center, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Richard Wirz, Bachelors Candidate, Montreat-Anderson College. Preservation/Restoration, performed tasks of a technical nature, September 11, 1989 through November 20, 1989.

NATIONAL MUSEUM OF AFRICAN ART

- Agbenyega Adedze, Masters Degree. Curatorial Department, researched the social function and aesthetic appreciation of Ewe Textiles, June 12, 1989 through August 18, 1989.
- Indra Caudle, Bachelors Candidate, Howard University. Curatorial Department, conducted object-orient research on the permanent collection, September 11, 1989 through December 31, 1989.
- Karen Fountain, Bachelors Degree. Public Affairs, assisted in promoting educational activities, organizing special events and developing affairs campaigns, June 5, 1989 through August 4, 1989.
- Kendall LaMontagne, Bachelors Candidate, Wellesley College. Archives, Processed and catalogued vintage postcard collection, June 14, 1989 through August 31, 1989.
- Nuria Madrid, Masters Candidate, George Washington University. Department of Education Department, conducted research and development of guided tours, January 17, 1989 through April 21, 1989.

- Dafton Njuguna, PhD Candidate, University of California at Los Angeles. Curatorial Department, reviewed literature on form and phenomena in nomadic transhumance architecture in sub-saharan Africa, June 19, 1989 through September 8, 1989.
- Heidi Overing, Bachelors Degree. Curatorial Department, conducted research and prepared materials for future exhibition, February 8, 1989 through June 30, 1989.
- Gretchen Primack, Bachelors Candidate, Oberlin College. Department of Education, conducted research on a single or group of instruments for future exhibition, December 4, 1988 through January 27, 1989.
- Sally Shelburne, Masters Candidate, University of Maryland. Curatorial Department, conducted research on African art, January 23, 1989 through May 30, 1989.

NATIONAL MUSEUM OF AMERICAN ART

- Dean Adkins, Masters Candidate, George Washington University. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1990.
- Stephen Best, Masters Candidate, Williams College. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1990.
- Susan Bollendorf, Bachelors Degree. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1990.
- Judy Chang, Bachelors Candidate, University of California at Santa Cruz. Graphic Arts, performed collection management tasks including cataloguing prints and drawings, reorganizing art works, and archival storage and handling, June 19, 1989 through September 8, 1989.
- Kimberly Cody, Bachelors Degree. Intern Programs, participated in advanced level museum training program, September 8, 1989 through December 8, 1989.
- Ethan Cohen, Bachelors Candidate, Yale University. Design and Production Office, assisted the Design and Production Office, June 5, 1989 through July 28, 1989.
- Mayra Corral, Bachelors Candidate, Georgetown University. Design and Production Office and Office of Museum Programs, divided time between Design and Production Office and Office of Museum Programs, June 5, 1989 through August 25, 1989.
- Karen Fix, Bachelors Degree. Office of Research Support, conducted research for the Inventory of American Paintings, September 25, 1989 through December 1, 1989.
- Catherine Groos, Masters Candidate, University of Southern California. Curatorial Division, assisted the Curatorial Division, January 9, 1989 through April 21, 1989.
- Anne Hudson, Bachelors Degree. Library, assisted in general aspects of the Library, June 5, 1989 through July 28, 1989.
- Nina Hval, Bachelors Degree. Intern Programs, participated in advanced level museum training program, September 8, 1989 through December 31, 1989.

Susannah Jacobson, Bachelors Candidate, Hartwick College. Curatorial Division, assisted the Curatorial Division, January 9, 1989 through February 3, 1989.

Jacqueline Kodner, Bachelors Degree. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1990.

J'Laine Krueger, Bachelors Degree. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1990.

Margaret Lee, Masters Candidate, University of Texas at Austin. Graphics, assisted in general aspects of the Department of Graphic Arts collection, June 5, 1989 through July 28, 1989.

Joseph Lucchesi, Masters Degree. Administration, assisted in all aspect of Administration Division, June 5, 1989 through July 28, 1989.

Catherine Lusheck, Bachelors Degree. Intern Programs, participated in advanced level museum training programs, September 8, 1989 through April 20, 1990.

Althea Malloy, Bachelors Candidate, College of William and Mary. Registrar, assisted Rights and Reproduction work, June 5, 1989 through August 25, 1989.

Julie Mann, Bachelors Candidate, Stanford University. Museum Programs, assisted in developing interpretive materials, June 5, 1989 through August 31, 1989.

Michelle Mead, Bachelors Degree. Curatorial Division, assisted in general aspects of the Curatorial Division, June 5, 1989 through July 28, 1989.

Kathleen Mosier, Bachelors Candidate, Hiram College. Research Support, assisted in Development of an inventory of American sculpture, June 5, 1989 through July 28, 1989.

Marina Moskowitz, Bachelors Candidate, Yale University. Curatorial Division, assisted in all aspects of the chief curator's research, June 5, 1989 through July 21, 1989.

Grace Murray, Bachelors Candidate, Wake Forest University. Publications, assisted in all aspects of the Publications Division, June 5, 1989 through July 28, 1989.

Kristin Norell, Bachelors Candidate, University of Kansas-Lawrence. Curatorial Division and Museum Programs Division, divided time between the Curatorial Division and the Museum Programs Division, January 9, 1989 through April 21, 1989.

Stephanie Rieke, Bachelors Candidate, Kenyon College. Curatorial Division, assisted in general aspects of the Curatorial Division, June 5, 1989 through July 28, 1989.

Lesley Roberts, Bachelors Candidate, University of California at Los Angeles. Office of Research Support, assisted the Office of Research Support, January 9, 1989 through March 24, 1989.

Leisa Rundquist, Bachelors Degree, University of Illinois. Curatorial Division, assisted in research for newly arrived Mephill collection, June 5, 1989 through July 28, 1989.

Lynne Schaffer, Masters Candidate, George Washington University. Public Programs Division, assisted the Public Programs Division, January 9, 1989 through April 21, 1989.

Martina Schenke, Masters Candidate, Goethe University. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1990.

- Leslie Tate, Masters Candidate, American University. Intern Programs, participated in advanced level museum training program, September 8, 1989 through April 20, 1989.
- Anne Walker, High School Graduate. Office of the Registrar, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Nancy Wickham, Bachelors Degree. Public Programs, assisted with development of public brochures and tours, June 5, 1989 through July 28, 1989.
- Stuart Wolfe, Bachelors Candidate, Seton Hall University. Registrar, assisted in various aspects of the Registrar's office, June 5, 1989 through July 28, 1989.

NATIONAL MUSEUM OF AMERICAN HISTORY

- Erin Ackerman, Bachelors Candidate, Smith College. Academic Affairs, conducted research on the history of representations of New England, September 5, 1989 through December 15, 1989.
- Cynthia Agustin, Bachelors Candidate, Smith College. Archives Center, assisted with the Duke Ellington exhibit, September 5, 1989 through December 15, 1989.
- Leanne Albert, Bachelors Candidate, St. Olaf College. First Ladies, conducted research on two First Ladies, September 21, 1989 through December 15, 1989.
- Mary Appel, Bachelors Degree. Archives Center, assisted with the Underwood and Underwood glass stereograph collection, September 5, 1989 through September 1, 1990.
- Michelle Appel, Bachelors Candidate, California State University at Chico. Conservation, assisted with conservation of Men and Womens exhibit, June 1, 1989 through August 18, 1989.
- Paula Artal-Isbrand, Bachelors Degree. Conservation, assisted with rehousing project, September 12, 1989 through May 15, 1990.
- Donna Avedisian, Bachelors Candidate, Tufts University. Registrar, compiled information about 18th and 19th century pianos, June 6, 1989 through July 31, 1989.
- Myrna Barrios, Museum Professional. National Museum of the Philippines. Office of the Registrar, performed collections management including records systems, object handling and processing and computerization of information, July 10, 1989 through October 15, 1989.
- Samuel Batzli, Masters Candidate, George Washington University. Printing and Photographic Services, assisted with George Tames collection of photographs, September 1, 1989 through August 31, 1989.
- Tanika Beamon, Bachelors Candidate, University of Pennsylvania. Assisted research by head of audience research and helped prepare preview gallery for the "The Information of People, Information and Technology" exhibit, June 5, 1989 through August 11, 1989.
- Dana Belcher, Bachelors Candidate, Gettysburg College. Numismatics, rearranged coins and currency of Alexandria, Egypt from Greek imperial times in Asia Minor and Asia Proper, September 12, 1989 through December 15, 1989.

- Sheri Belcher, Bachelors Candidate, George Mason University. Computers Information and Society, assisted with the "Information Age" exhibition, February 7, 1989 through September 1, 1989.
- Suzanne Bell, Bachelors Candidate, University of California at Berkeley. Domestic Life Division, researched youth subcultures in 20th century American and American home life, June 1, 1989 through August 1, 1989.
- Paul Bellis, Bachelors Candidate, College of Wooster. History of Science and Technology, assisted in research on exhibit dealing with history of science in the U.S., stressing the social implications of scientific research, June 5, 1989 through August 4, 1989.
- Mike Berman, Bachelors Candidate, University of Wisconsin. Social and Cultural History, performed research, script writing and exhibit maintenance for "Land of Promise: America in the 19th century," May 23, 1989 through August 18, 1989.
- Amy Bix, PhD Candidate, Johns Hopkins University. History of Science and Technology, researched and planned for new exhibit "Science in America," June 14, 1989 through August 31, 1989.
- Laura Blake, Bachelors Candidate, American University. Department of Public Programs, assisted research and collection of photos, American Sampler programs, and archiving and cataloging of materials, January 27, 1989 through May 5, 1989.
- Heidi Boncher, Bachelors Candidate, University of Michigan. Electricity and Modern Physics, collected data for card catalog, prepared photographs and assisted in conservation tasks, June 1, 1989 through July 31, 1989.
- Kourtney Braff, Bachelors Degree. Internship Office, assisted with Desktop Publishing Intern Newsletter and Pendulum Perspectives, June 6, 1989 through July 6, 1989.
- Laura Branstetter, Bachelors Candidate, New College of U.S.F. Transportation Division, assisted with exhibit design and construction of Bicycle exhibit, June 5, 1989 through August 10, 1989.
- Elizabeth Broadrup, Bachelors Candidate, Williams College. Community Life Division, performed graphic and bibliographic research for exhibit on children and the Cold War Era and assisted with exhibit maintenance, cataloguing and accessioning, June 19, 1989 through August 31, 1989.
- Christina Broberg, Bachelors Candidate, Corcoran School of Art. Publications, assisted in graphic design and production of booklets, flyers, and programs required by the Department of Public Programs, February 21, 1989 through May 12, 1989.
- Jeffrey Brodie, Bachelors Candidate, University of California, Berkeley. Science and Technology, assisted with research of various science and technology projects using the Smithsonian Archives, the National Archives and the Library of Congress, May 24, 1989 through August 3, 1989.
- Melissa Brown, Bachelors Candidate, Alma College. Office of Public Affairs, acted as liaison with curators and exhibit designers, met with film crews, answered calls and reviewed periodicals and newspapers for information pertinent to the museum, February 2, 1989 through April 28, 1989.

- Betsy Buchanan, Bachelors Candidate, Emory and Henry College. Numismatics, created photographic files including identification check and typing of labels, March 7, 1989 through May 1, 1989.
- Christopher Bunce, High School Graduate. National Numismatics Collection, participated in "Intern '89," the Office of Elementary and Secondary Education's national Summer internship program, July 10, 1989 through August 11, 1989.
- David Burgevin, Masters Candidate, Virginia Commonwealth University. Photographic History, assisted with collection management, August 28, 1989 through December 8, 1989.
- Kim Butler, Masters Degree. Public Programs, researched and planned for 1990 conference on the African diaspora, June 5, 1989 through August 25, 1989.
- Michele Cappelle, Masters Degree. Textiles, researched the patent models of carpeting in the Dot collection, July 7, 1989 through September 22, 1989.
- Lage Carlson, Masters Candidate, Buffalo State College. Conservation Division, assisted with conservation/preservation of paper objects, March 6, 1989 through August 11, 1989.
- James Carpenter, Bachelors Candidate, Central Wesleyan College. Transportation, served as research and collections management assistant, September 11, 1989 through December 18, 1989.
- Marie Carter, Bachelors Degree. Publications, served as editorial and production assistant working on entire publications process, September 25, 1989 through June 30, 1990.
- David Cebula, Masters Candidate, West Virginia University. Transportation, compiled an index of marine steam engine builders in New York from 1840 through 1860, January 23, 1989 through March 17, 1989.
- Sulhee Chung, Bachelors Candidate, Smith College. Science and Technology, conducted research on the impact and influence of technological development on the intellectual history of the United States, September 5, 1989 through December 15, 1989.
- Greta Climer, Bachelors Candidate, Mount Holyoke College. Internship Office, assisted in coordination and research for the Landmark '90 conference and the February Black History Month Conference, June 12, 1989 through August 4, 1989.
- Leslie Clovis, Masters Candidate, Northeastern University. Internship Office, organized "brown bag" series of weekly lectures and events for interns, June 5, 1989 through September 1, 1989.
- Lisa Clyde, Bachelors Candidate, Smith College. Archives Center, conducted research on the history of advertising, September 5, 1989 through December 15, 1989.
- Anna Coatsworth, Bachelors Candidate, Mount Holyoke College. Internship Office, assisted Internship and Fellowship Coordinator, July 3, 1989 through August 25, 1989.
- Jared Cohen, Bachelors Candidate, American University. Education, assisted with "Field to Factory" Education outreach kits, January 24, 1989 through April 24, 1989.

- Hope Connors, Masters Degree. American Indian Program, maintained "The Way to Independence" exhibition, established "suitcase" a traveling exhibition of native plants and medicinal plants and assisted with Folklife Festival and Public Programs Education Coordination, June 12, 1989 through October 17, 1989.
- Rebecca Cureton, Masters Candidate, George Washington University. Education, assisted with projects relating to the Hands on History Room, January 9, 1989 through April 20, 1989.
- Colleen Curry, Masters Candidate, George Washington University. Registrar's Office, assisted with variety of tasks including administrative functions, off-site storage and central cataloguing of the 1876 exhibition, May 8, 1989 through June 30, 1989.
- Amy Jo Dale, Bachelors Candidate, University of Redlands. Public Affairs, studied administrative systems necessary for an effective public affairs program, September 21, 1989 through December 15, 1989.
- Daniel Dalrymple, High School Graduate. Archives Center, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Margarita Decierdo, Bachelors Degree. Department of History and Department of Agriculture, researched and transcribed information on Southern agriculture, June 12, 1989 through September 1, 1989.
- Liesl Dees, Bachelors Degree. Musical History, assisted with the Duke Ellington collection, September 5, 1989 through August 5, 1990.
- Margherita Desy, Masters Candidate, George Washington University. Political History, worked on decorative art objects for the "Ceremonial Court" exhibition and performed conservation and design work on the First Ladies Case, January 11, 1989 through May 1, 1989.
- Cynthia Dickinson, Bachelors Candidate, Princeton University. Electricity and Modern Physics, performed basic collections management and preparation of a historic photo file, June 19, 1989 through August 18, 1989.
- Debra Dunbar, Bachelors Candidate, University of California, Davis. Exhibit Design, served as design assistant for the "Women in the Progressive Era" exhibition, September 5, 1989 through December 20, 1989.
- David Edwards, Bachelors Candidate, Holy Cross College. Academic Affairs, assisted in preparation of a historiography of the literature about the Puritans, January 17, 1989 through May 5, 1989.
- Hazel Ervin, Bachelors Candidate, Howard University. American Quarterly, assisted with editing and layout for American Quarterly, June 5, 1989 through August 25, 1989.
- Lura Erwin, Bachelors Candidate, American University. Exhibit Design, designed scale drawings for "From Parlor to Politics" exhibition, February 1, 1989 through April 28, 1989.

- Marisol Espina-Ruiz, Museum Professional, National Museum of Anthropology of Mexico. Exhibits, assisted in the design and preparation for an exhibition on television, January 1, 1989 through May 15, 1989.
- Francesca Fazzari, Bachelors Candidate, University of Toronto. History of Science and Technology, assisted with research in Marxist perspective of developmental technology and with technology exhibit preparation, May 15, 1989 through August 18, 1989.
- Kathleen Fenton, Masters Candidate, George Washington University. Internship Office, served as assistant internship and fellowship coordinator, January 9, 1989 through March 31, 1989.
- Jocelyn File, Bachelors Degree. Armed Forces Division, worked with prints and photographs in the Division's collection and helped to maintain the "A More Perfect Union" exhibition, June 5, 1989 through September 1, 1989.
- Amber Finney, High School Graduate. Division of Medical Sciences, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Delya Ghosh, High School Graduate. Programs in Popular American Music, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Leslie Gillium, High School, Thomas Jefferson High School for Science and Technology. Political History, assisted with research and organization for "Women in the Progressive Era" exhibition, June 28, 1989 through July 29, 1989.
- Joanne Gipson, Bachelors Degree. Medical Sciences, performed research and inventory in preparation for the manuscript "Engendering Culture: Manhood and Womanhood in 1930s Murals, Sculptures, and Theater", June 8, 1989 through August 1, 1989.
- Randi Gordan, Bachelors Candidate, Washington State University. Department of Science and Technology, assisted in a special project for military headgear, a project for uniforms and in developing a national collection of women's military uniforms, May 22, 1989 through August 12, 1989.
- Christine Griffin, Bachelors Candidate, Baldwin Wallace College. Internship Office, assisted Internship and Fellowship Coordinator, June 19, 1989 through September 1, 1989.
- Peter Gustafson, Bachelors Candidate, Houghton College. Political History, identified, marked, located, and rearranged collections, February 2, 1989 through April 28, 1989.
- Jeffrey Hamley, PhD Candidate, Harvard University. American Indian Program, researched photographic history of federal Indian boarding school education during the late nineteenth and early twentieth centuries, June 5, 1989 through August 25, 1989.

- Brooke Hartzog, Bachelors Candidate, Smith College. Photography, assisted in the production of a videodisc concerning the Underwood and Underwood glass stereographs collection, September 5, 1989 through December 15, 1989.
- Katherine Hersperger, Bachelors Candidate, Syracuse University. Publications Division, assisted in design and editing, production and inventory control of publications, May 22, 1989 through July 28, 1989.
- Elizabeth Heydt, Bachelors Candidate, Purdue University. Electricity and Modern Physics, assisted in collections management, working with a project to rehouse specimens collected in the Division of Electricity and Modern Physics, May 15, 1989 through August 11, 1989.
- Julie Hickman, Bachelors Candidate, Baylor University. Public Programs, assisted the Intern Coordinator, May 15, 1989 through June 16, 1989.
- Carrie Higgins, Bachelors Candidate, Gettysburg College. Electricity and Modern Physics, worked in conservation collection management, exhibit design and on-line computer data entry, September 21, 1989 through December 15, 1989.
- Michelle Ho, High School Graduate. Division of Political History, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Cynthia Holloman, Bachelors Candidate, Auburn University. Armed Forces History, participated in special projects to document, photo and rehouse head gear, and in development of the collection of women's military uniforms, June 15, 1989 through August 18, 1989.
- Kathleen Horwedel, Bachelors Candidate, Bowling Green State University. Social and Cultural History and Division of Community of Life, assisted with research and exhibitions, June 5, 1989 through August 9, 1989.
- Erin Hoyt, Bachelors Candidate, Spring Hill College. Education, assisted with preparation of a new interpreter's manual for the school tour program, May 30, 1989 through August 10, 1989.
- Maureen Hurley, Bachelors Candidate, University of New Hampshire. Public Programs, assisted with production of publications, February 2, 1989 through April 28, 1989.
- Elizabeth Joffrion, Masters Degree. Agriculture and Natural Resources, transcribed, indexed and created finding aide for a series of oral histories conducted with Southern sharecroppers and farm tenants, September 25, 1989 through June 30, 1990.
- Su Kao, Bachelors Candidate, Bryn Mawr College. History of Science and Technology, catalogued and accessioned approximately 200 over-the-counter medicines collected in China last year, June 1, 1989 through August 11, 1989.
- Mary Kenyon-Sterling, Bachelors Degree. Columbus Quincentenary, assisted with research and preparation of exhibits, June 19, 1989 through June 1, 1990.
- Mark Kessler, Bachelors Degree. Assisted with research for Common Agenda, June 27, 1989 through August 25, 1989.

Lene Klit, Visiting Professional, Danish National Museum. Conservation Department, served as assistant to the photographers learning latest photographic, studio and lab equipment, November 1, 1988 through January 31, 1989.

Lisa Kranthal, Bachelors Degree. Conservation, learned conservation techniques, September 18, 1989 through June 30, 1990.

Angela Krueger, Bachelors Candidate, Gettysburg College. Armed Forces Division, participated in a special project for military headgear and helped to develop a national collection of women's military uniforms, May 22, 1989 through July 28, 1989.

Sanghmitra Kundu, Masters Candidate, Texas Tech Museum. History and Technology Collections Management, assisted with reinstallation of exhibits removed for building renovation, May 15, 1989 through August 15, 1989.

Martha La Mason, Bachelors Candidate, Christopher Newport College. Political History, assisted with final organization and installation of the "Ceremonial Court" exhibition, January 9, 1989 through March 7, 1989.

Jill Lavigne, Bachelors Candidate, Duke University. Office of Printing and Photographic Services, assisted with various work in the office, May 30, 1989 through August 4, 1989.

Maureen Lenehan, Bachelors Degree. Numismatics, reorganized the Numismatic Library photographs, June 5, 1989 through September 1, 1989.

Jennifer Loesel, High School Graduate. Early Enrichment Center, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.

Bridget Maley, Bachelors Candidate, Salem College. Ceramics and Glass, assisted in accessioning a collection of recently acquired ceramics, January 3, 1989 through January 27, 1989.

David Manning, Bachelors Candidate, Portland State University. Museum Programs, assisted with publicity for American Sampler, All-American Music and Palm Court programs, September 12, 1989 through November 30, 1989.

Daniel McCarthy, Bachelors Candidate, University of Oregon. Internship Office, researched and produced an Internship Catalogue; researched and wrote for the Newsletter to former interns, April 3, 1989 through June 23, 1989.

Daniel McClure, Bachelors Candidate, Wesleyan University. Archives Center, conducted a research project with the Duke Ellington Collection, June 5, 1989 through August 25, 1989.

Laura McGlasson, Bachelors Candidate, American University. Armed Forces History, updated catalog records on Womens Uniform Collection, January 31, 1989 through May 15, 1989.

Bronwyn McNeill, Bachelors Candidate, Trinity College, University of Dublin. Military History and Regent's Fellow, assisted with rehousing, conservation and collections management of Recruitment Posters in military history, June 19, 1989 through October 1, 1989.

- Cheryl Megerdighian, Bachelors Degree. Archives Center, archived materials from various collections, June 7, 1989 through August 4, 1989.
- Vicki Meier, Bachelors Candidate. Armed Forces History, participated in a special project to document, photograph and rehouse military headgear and assisted with reorganization of uniform collection, May 9, 1989 through August 25, 1989.
- Dana Middents, Bachelors Candidate, American University. History of Science and Technology, assisted with entering graphics into on line catalog and with an interactive display, June 12, 1989 through July 28, 1989.
- Nancy Mitchell, Bachelors Degree. History of Science and Technology, assisted with Native American Culture resource management, June 26, 1989 through August 25, 1989.
- Todd Mohink, Bachelors Candidate, University of Maryland. Department of Social and Cultural History, assisted with cataloguing movie objects and with the Men and Women exhibit, June 19, 1989 through August 11, 1989.
- Monica Moore, Bachelors Degree. Division of Musical Instruments, researched black periodicals to discover black perception of Ellington, June 12, 1989 through September 1, 1989.
- Alexandra Morris, Bachelors Candidate, Cambridge University. Division of Science and Technology, assisted with arrangement of graphics for communications exhibit, July 5, 1989 through September 1, 1989.
- Matthew Mulcahy, Bachelors Candidate, Macalester College. Division of Community Life, researched historically black land grant college, May 30, 1989 through August 31, 1989.
- John Murph, Bachelors Degree. Studied Afro-American music and jazz with emphasis on Duke Ellington's international tours, June 5, 1989 through August 25, 1989.
- Kevin Murphy, Masters Degree. Domestic Life, conducted research of 20th century American home life and youth culture and assisted with maintenance of current exhibits and collections, June 1, 1989 through August 31, 1989.
- Laura Narcizo, Bachelors Candidate, George Washington University. Internship and Fellowship Office, served as assistant internship and fellowship coordinator, September 6, 1989 through December 6, 1989.
- Jessie Nicoll, High School, Pittsford Mendon High School. Exhibits Production, assisted with graphics production, July 17, 1989 through August 31, 1989.
- Sylvia O'Macauley, Bachelors Degree. Archives Center, assisted with Duke Ellington project, June 19, 1989 through September 1, 1989.
- Allison Paddlety, Bachelors Candidate, Institute of American Indian Art. Armed Forces History, assisted staff with daily office work, October 7, 1988 through December 22, 1988. Graphic Arts, assisted with various work in the division, June 26, 1989 through August 11, 1989.
- Sunae Park, Phd. Textiles, Completed descriptions of newly-acquired objects, continued survey of early 20th-Century fabrics, assisted mounting a Case-of-the Month exhibit, April 10, 1989 through July 3, 1989.

- Pamela Paulien, Bachelors Degree. Exhibits Design, assisted in developing models and drawings for sections of the "From Parlor to Politics" exhibition, June 5, 1989 through July 28, 1989.
- Stephen Perciful, High School Graduate. Division of Armed Forces, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Lisa Pertillar, Bachelors Candidate, Smith College. Division of Community Life, assisted in editing and writing annotated bibliography for a gospel music anthology, June 5, 1989 through August 24, 1989.
- Diana Plumer, Bachelors Candidate, Case Western Reserve University. Political Documents, performed duties as research assistant, June 26, 1989 through August 4, 1989.
- Sarah Prown, Bachelors Degree. Community Life, conducted research and collections management for an exhibition on the early history of Rock and Roll, September 5, 1989 through August 31, 1990.
- Amanda Quandt, Bachelors Candidate, Taylor University. Public Programs, obtained film and video excerpts used in video presentations for two special exhibitions, January 23, 1989 through May 4, 1989.
- Dwandalyn Reece, Masters Degree. Musical History, conducted research for the Duke Ellington Collection, January 5, 1989 through May 31, 1989.
- Sharon Reynolds, Bachelors Candidate, Smith College. Archives Center, assisted with the Duke Ellington exhibition, September 5, 1989 through December 15, 1989.
- William Roche, III, Bachelors Candidate, University of Notre Dame. Design Division, assisted in research and scale drawing for the "Sesame Street" and the "Manufacturing of the M9 Service Handgun," May 31, 1989 through August 20, 1989.
- Janet Rockne, Bachelors Degree. Division of Domestic Life, assisted with research in 20th Century youth subcultures, and with cleaning and numbering of exhibits, August 1, 1989 through August 1, 1990.
- Ivonne Ross, Bachelors Candidate, Montgomery College. Medical Sciences, assisted in cataloguing accessioning, photographing and entering into computer data medical objects to be transferred to other locations, June 19, 1989 through August 18, 1989.
- Darren Rydstrom, Bachelors Candidate, Biola University. Agriculture and Natural Resources, served as research and collections management assistant, September 11, 1989 through December 18, 1989.
- Jacqueline Schraud, Masters Candidate, Armed Services
History, catalogued women's uniforms and studied women on frontier army posts, June 1, 1989 through August 1, 1989.
- Susan Schroeder, Bachelors Candidate, Colorado State University. American Indian Program, assisted with the American Indian collection, May 8, 1989 through July 28, 1989.

- Nicole Senecal, Masters Candidate, George Washington University. Exhibit Design, researched, designed and executed specific elements of the "Who Wears the Pants?" exhibition, January 10, 1989 through April 14, 1989.
- Eileen Shapiro, Masters Degree. Political History, researched moving pictures and other film sources at the National Archives and the Library of Congress for the "Women in Progressive Era" exhibition, July 10, 1989 through September 30, 1989.
- Cheryl Simmons, Masters Degree. Archives, researched African-American Diaspora, May 15, 1989 through November 11, 1989.
- Jolie Simmons, Bachelors Candidate, West Virginia University. Publications and Exhibit Design, assisted in design, production and inventory control with special emphasis on the design and production of printed materials, September 11, 1989 through June 1, 1990.
- Sara Smith, Bachelors Candidate, Northwestern University. Political History, conducted research and photographic identification on slavery and free blacks in 19th Century America, September 19, 1989 through December 15, 1989.
- Suzanne Smyrl, Masters Candidate, University of Maryland. Division of Political History, assembled and reorganized portions of the Division's photographic collections into useful categories or descriptors for the use of researchers, May 30, 1989 through July 28, 1989.
- Rebecca Sokolovsky, Bachelors Candidate, Williams College. Musical History, assisted with research to develop a bibliographic and vertical research file on Duke Ellington and his associates, June 5, 1989 through August 31, 1989.
- Linda Song, Bachelors Degree. Assisted with research for paper on Afro-Americans who remained in the South during the Great Migration and acted as curatorial assistant for the "Parlor to Politics" exhibition, June 5, 1989 through August 18, 1989.
- Christopher Stadnyk, High School Graduate. Department of Exhibits, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Evan Stoddard, Bachelors Candidate, Miami University, Ohio. Electricity and Modern Physics, organized card catalogue system and photographs and acted as curatorial assistant, May 23, 1989 through August 1, 1989.
- Yoonjoo Strumfels, Masters Degree. Paper Conservation, completed an advanced internship in conservation, January 3, 1989 through January 2, 1990.
- Pamela Sturner, Bachelors Candidate, Yale University. Division of Community Life, researched and developed an exhibit on children of the Cold War, May 30, 1989 through July 21, 1989.
- Miriam Thaggert, High School Graduate. Program in Black American Culture, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.

Jennifer Theiss, Bachelors Candidate, University of Michigan Art School. Design, performed basic graphic and typographic work for exhibits, June 8, 1989 through August 8, 1989.

Phillip Thomas, Bachelors Degree. Internship and Fellowship Office, served as assistant internship and fellowship coordinator, September 9, 1989 through December 1, 1989.

Kiley Timperley, High School Graduate. Office of Printing and Photographic Services, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

Christine Truoiolo, Bachelors Candidate, American University. Public Programs, assisted with the production of a scholarly meeting, a public symposium and a small exhibition, January 24, 1989 through May 5, 1989.

Ann Wagner, Bachelors Candidate, Wheaton College. Musical History, assisted with the Duke Ellington project, January 3, 1989 through January 27, 1989.

Stephanie Wahl, Bachelors Candidate, George Mason University. Armed Forces History, assisted with women's uniform collection, September 6, 1989 through December 15, 1989.

Chris Walsh, Bachelors Candidate, Georgetown University. Academic Affairs, assisted Copy Editor of the American Quarterly, January 12, 1989 through June 1, 1989.

Eric Ward, Bachelors Candidate, Coe College. Public Affairs, coordinated and supervised film crews for press conferences on the Inventors and Innovators exhibit, September 13, 1989 through December 8, 1989.

Janis Weiher, Masters Candidate, George Washington University. Office of the Registrar, assisted with all major functions of the Office of the Registrar, January 10, 1989 through April 20, 1989.

Jodi Westrum, Bachelors Candidate, University of Iowa. Public Programs, served as permissions editor for Columbus Quincentenary book, September 5, 1989 through December 15, 1989.

Heather Wilcox, High School, Pennridge High School. Transportation, catalogued Pullman train photos on computer, June 5, 1989 through August 11, 1989.

Cynthia Williams, Masters Candidate, James Madison University. Social and Cultural History and Political History, assisted with photographic collection and with the "Parlor to Politics" exhibition, June 5, 1989 through August 18, 1989.

Nicole Williamson, Bachelors Degree. Public Programs, conducted research for 1992 Africa Diaspora Conference and served as production assistant for the 1990 African AMERICAN Aesthetic Conference, September 25, 1989 through December 1, 1989.

Heather Woodcock, Bachelors Degree. Center for Advertising History and the Archives Center, assisted with research on food, cosmetic and public interest advertising including soft drink, cigarette and over-the-counter medicine ads, June 26, 1989 through August 18, 1989.

Sun Kyung Yoon, Bachelors Candidate, George Mason University. Computers and Information in Society, assisted with the "Information Age" exhibition, February 2, 1989 through September 1, 1989.

NATIONAL MUSEUM OF NATURAL HISTORY

John Alroy, Bachelors Degree. Paleobiology, compiled information on Terrestrial Ecosystem Evolution, July 4, 1989 through June 30, 1990.

Abigail Armstrong, Bachelors Candidate, Oberlin College. Anthropology, assisted with inventory, repair and process of a historic film collection, June 7, 1989 through August 18, 1989.

Kristina Arnold, Bachelors Degree. Anthropology, researched Plains Indian sundance and contemporary Plains Indian art, May 31, 1989 through August 18, 1989.

Anne Baird, Bachelors Candidate, Salem College. Naturalist Center, reviewed, edited and updated Learning Laboratory in Human Osteology, January 3, 1989 through January 27, 1989.

Jennifer Baum, Bachelors Candidate, George Washington University. Anthropology, worked with classical archaeology, May 26, 1989 through August 30, 1989.

Timothy Bernardis, Masters Degree. Little Big Horn College. Anthropology, researched and wrote for Crow tribal catalog, July 17, 1989 through August 11, 1989.

Kathryn Bohling, Masters Candidate, George Washington University. Education, prepared educational component for exhibition in the North American Mammal Hall, January 9, 1989 through May 4, 1989.

Leah Bowanko, Bachelors Candidate, James Madison University. Botany, conducted research on the flora of the Guianas, December 19, 1988 through January 6, 1989.

Heather Briggs, Bachelors Candidate, George Washington University. Vertebrate Zoology, worked with systematics of nine-banded armadillos, June 5, 1989 through August 11, 1989.

Kyllan Brooke, High School Graduate. Department of Exhibits, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

Scott Brown, Masters Candidate, George Washington University. Anthropology, assisted with preliminary research for Hall of Human Origins, January 9, 1989 through May 12, 1989.

Kenneth Michael Cameron, Bachelors Degree. Botany, conducted research on the flora of the Guianas, December 19, 1989 through January 2, 1989.

- Maribel Campbell, Bachelors Candidate, University of New Mexico. Vertebrate Zoology, worked with catalogue of American Amphibians and Reptiles specifically systematics of Sonora Leaf-Nosed snakes, June 5, 1989 through August 11, 1989.
- Elizabeth Cates, Bachelors Candidate, George Mason University. Anthropology, assisted in the laboratory analyzing bones from the Lamb Spring archaeological site, December 19, 1988 through May 15, 1989.
- James Chandler, Bachelors Degree. Mineral Sciences, worked with computer specialist in the Global Volcanism Program, May 22, 1989 through August 31, 1989.
- Monique Chretien, High School Graduate. Vertebrate Zoology, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Susan Cierebiej, High School Graduate. Marine Systems Laboratory, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Eileen Collins, Bachelors Candidate, Louisiana Tech University. Vertebrate Zoology, and Herpetology, studied age and size relationships in an Arboreal snake, June 5, 1989 through August 11, 1989.
- Marcia Connor, Bachelors Candidate, Thomas Nelson Community College. Mammalogy, assisted with curating genets, January 23, 1989 through May 15, 1989.
- Jill Crook, Bachelors Candidate, Mount Holyoke College. Anthropology, compiled data on Pacific Collection donors and performed a bibliographic search on Preznisian art, June 5, 1989 through July 28, 1989.
- Mary Droutsas, Bachelors Candidate, Gallaudet University. Film Archives, organized, processed, repaired and prepared archival motion picture collections for preservation, duplication and storage, January 31, 1989 through April 28, 1989.
- Randy Emery, Bachelors Candidate, Haskell Indian Junior College. Anthropology, assembled information relevant to American Indian collections in Smithsonian museums and photocopied all Zuni photographs, June 5, 1989 through August 5, 1989.
- David Ernestes, Bachelors Candidate, Texas A&M University. Botany, assisted with processing Dr. Elbert Little's Collection, May 30, 1989 through August 4, 1989.
- Neil Fallon, High School, Seneca Valley High School. Anthropology, conducted research in a skeletal biology laboratory, February 2, 1989 through June 15, 1989.
- Jean Fang, Bachelors Degree. Anthropology, assisted with Central Plants Collection in bone analysis and inventory, June 5, 1989 through August 15, 1989.
- Darcie Faucher, Bachelors Candidate, LIU Southampton College. Marine Systems Laboratory, participated in field project in Goodland, Florida, August 30, 1989 through December 23, 1989.

- Carolyn Ferrell, Bachelors Candidate, University of Minnesota. Vertebrate Zoology, worked with Mammalian Species Account, June 5, 1989 through August 11, 1989.
- Lisa Fritzler, Bachelors Candidate, Montana State University. Anthropology, photographed Crow Artifact Collection for catalog, July 10, 1989 through September 8, 1989.
- Suzanne Furesz, Bachelors Candidate, St. Mary's University. Botany, assisted with Living Forest project and its application to paleobotanical field work, May 30, 1989 through August 11, 1989.
- Eric Galm, Bachelors Degree. Anthropology, re-catalogued African drums in the collection, analyzed and notated field performance tapes and worked with the Folklife Festival, June 8, 1989 through August 25, 1989.
- Jania Garcia, Masters Candidate, University of Washington. Anthropology, arranged and described the papers of Helen L. Peterson (Executive Director, National Congress of American Indians, 1953-1961), April 3, 1989 through June 30, 1989.
- Antoinette Geoly, Bachelors Candidate, James Madison University. Mineral Sciences, worked with powder x-ray diffraction studies of minerals, June 13, 1989 through August 18, 1989.
- Gary Gillis, Bachelors Candidate, Pacific Lutheran University. Vertebrate Zoology, worked with Fish Osteology and Systematics, June 5, 1989 through August 11, 1989.
- Jason Grant, Bachelors Candidate, University of Alaska at Fairbanks. Botany, worked with Bromeliad Floristics, May 30, 1989 through August 30, 1989.
- Jennifer Gray, Bachelors Candidate, Rhodes College. Vertebrate Zoology, worked with Fossil Birds, June 5, 1989 through August 11, 1989.
- Terry Gray, Bachelors Candidate, State Gleska College. Anthropology, worked on a photo survey, June 12, 1989 through August 11, 1989.
- Timothy Griffith, High School Graduate. Botany, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Susan Grupp, Bachelors Degree. Entomology, illustrated anatomical dissections to assist research on Lepidoptera (moths), December 19, 1988 through March 30, 1989.
- William Haigler, Bachelors Candidate, University of Wisconsin at Stevens Point. Botany, assisted with Graminae curation and with the cytology of Mulhenbergia, May 30, 1989 through August 15, 1989.
- Margaret Halloran, Bachelors Candidate, Beloit College. Anthropology, abstracted scholarly articles in preparation for conference on Museums and their Communities, helped to prepare bibliography on Niger and northern Nigeria for a research project on the history of theater and drama in this region, and worked with research project on socialization of youth in to adult society, May 22, 1989 through August 20, 1989.

- Brian Harvey, Bachelors Candidate, Gettysburg College. Anthropology, assisted in classical archeology section, May 25, 1989 through August 20, 1989.
- Hilde Hein, Visiting Professional, College of the Holy Cross. Education, conducted audience research in the museum and assisted in the development of public programming during the summer, April 10, 1989 through September 1, 1989.
- David Hiltz, Jr., Bachelors Candidate, College of the Atlantic. Marine Systems Laboratory, developed and operated living ecosystems for the Space Biosphere Venture Project, January 2, 1989 through March 3, 1989.
- Bruce Hoffman, Bachelors Candidate, Humboldt State University. Botany, prepared manuscript on useful and medicinal plants of the Tuianas and processed plant specimens from the Tuianas, May 30, 1989 through August 4, 1989.
- Claudia Holland, Bachelors Degree. Anthropology, collected and assembled accession, catalogue, and pertinent information to establish the provenance of African-Caribbean and African-Hispanic objects located in the Ethnological Collections, August 7, 1989 through September 22, 1989.
- Eleanor Holland, Bachelors Degree. Entomology, produced scientific illustrations for publication in research papers, September 5, 1989 through September 30, 1989.
- Kathryn Hoppe, Bachelors Degree. Mineral Sciences, assembled post-1986 reports for successor to recently published Global Volcanism 1975-1985, gathered information about geophysical events and helped to prepare reports for the Scientific Event Alert Network Bulletin, June 12, 1989 through August 4, 1989.
- Natasha Iskander, High School, Madeira School. Exhibits, assisted with the Volcano, Egyptian and Nomads exhibitions and conducted photography research for educational programs, September 20, 1989 through June 1, 1990.
- Laurie Jeffers, Bachelors Candidate, State University of New York. Botany, photographed using the Scanning Electron Microscope, January 3, 1989 through January 13, 1989.
- Katherine Jones, Bachelors Candidate. Invertebrate Zoology, drew scientific illustrations for Mollusk Department, including carbon dusting, stipple and sketches, June 12, 1989 through August 31, 1989.
- Miranda Kahn, Bachelors Candidate, Oberlin College. Botany, performed anatomical studies of Commelinaceae, May 30, 1989 through August 4, 1989.
- Lawrence Kelly, Bachelors Candidate, California Polytechnic State University. Botany, worked on composite of the Guyanas, June 12, 1989 through August 11, 1989.
- Laurie Klingensmith, Bachelors Candidate, New Mexico State University. Botany, archived botanical illustrations from the department, rematting and creating database, May 30, 1989 through August 4, 1989.
- Francis Koh, High School, Walt Whitman Senior High School. Marine Systems Laboratory, assisted in maintaining systems laboratory project, June 26, 1989 through August 31, 1989.

- Nicole Lemon, Bachelors Candidate, University of North Carolina at Chapel Hill. Anthropology, conducted research, September 18, 1989 through December 8, 1989.
- Mia Lerner, Bachelors Candidate, University of Wisconsin at Madison. Naturalist Center, organized and catalogued fossil mollusks and developed scientific illustration skills, June 19, 1989 through August 12, 1989.
- Marcy Levy, Bachelors Candidate, College of William and Mary. Anthropology, assisted in developing a bibliography in relation to the Conte Collection of West African textiles from Niger and Nigeria, organized twenty years of correspondences concerning the Lamb Collection of West African textiles and worked with the Dan collection of passport masks and developed a picture library according to ethnic programs, June 1, 1989 through August 11, 1989.
- Danny Maria, Bachelors Candidate, Fort Lewis College. Anthropology, worked as a computer programmer and with the Navajo History section, May 29, 1989 through August 4, 1989.
- Kim Meadow, Bachelors Degree. Vertebrate Zoology, worked with Mammalian Species Account, June 5, 1989 through August 11, 1989.
- Carol Mears, Bachelors Candidate, Youngstown State University. Botany, studied, processed and identified marine algae, May 30, 1989 through August 4, 1989.
- Corinne Miles, Bachelors Degree. Paleobotany, conducted fieldwork of Eocene Period in Big Horn Basin, Wyoming and processed data, July 6, 1989 through September 6, 1989.
- Kimberly Moeller, Bachelors Candidate, Stockton State College. Anthropology, assisted in the Conservation Laboratory, February 6, 1989 through May 13, 1989.
- Brad Moon, Bachelors Degree. Vertebrate Zoology, conducted research on the variation in South Pacific island populations of the parthenogenetic and sexually reproducing gecko *Nastus pelagicus*, October 17, 1988 through March 30, 1989.
- Susan Nahwoosky, Bachelors Candidate, Keuka College. Anthropology, catalogued Comanche collection, May 22, 1989 through August 22, 1989.
- James Nieh, Bachelors Candidate, Harvard College. Vertebrate Zoology, studied Allometry in Squirrels, June 5, 1989 through August 11, 1989.
- Andrea Nix, Bachelors Candidate, Duke University. Botany, documented two data base programs and updated current genus lists and labels, June 9, 1989 through August 18, 1989.
- James Nix-Gomez, High School, Thomas Jefferson High School for Science and Technology. Anthropology, worked with The Powers Phase Project, computerizing information about artifacts from two sites in Missouri using DBase and Autocard programs, June 26, 1989 through September 4, 1989.
- Virginia Norcross, Bachelors Candidate, University of California at Los Angeles. Anthropology, researched for brochure, July 17, 1989 through September 30, 1989.

- Anna Nowicka, Bachelors Candidate, University of Warsaw. Anthropology, analyzed historic pottery from the northern Great Plains with special emphasis on the Arikara Indians, September 5, 1989 through September 1, 1990.
- Sue Oesterreich, Bachelors Candidate, University of Wisconsin at Stevens Point. Botany, worked on various lab duties including describing pollen ultrastructure, May 30, 1989 through August 4, 1989.
- Monika Palunas, Bachelors Candidate, Wittenberg University. Paleobiology, performed paleobotanical laboratory work and field work, June 9, 1989 through August 25, 1989.
- Sunae Park, PhD. Anthropology, improved documentation of the Korean ethnology collections, especially the early textile collection, August 1, 1989 through January 15, 1990.
- Alonso Perez, High School, San Gabriel High School. Botany, assisted in Gramineae curation, July 3, 1989 through August 31, 1989.
- Patricia Petrivelli, Masters Candidate, University of Alaska, Fairbanks. Anthropology, conducted research in the Aleut collections, April 13, 1989 through June 2, 1989.
- Jennifer Phipps, Bachelors Candidate, Muskingum College. Botany, worked on bibliography and update of negatives for Gesneriaceae projects, May 30, 1989 through August 4, 1989.
- Arifin Pramono, Museum Professional, National Museum of Indonesia. Anthropology, learned and practiced archival techniques to be applied to the Dorothy Pelzer collection, January 16, 1989 through January 28, 1990.
- Scott Rawlins, Masters Degree. Anthropology, drew artifacts for publication, and helped to prepare anthropological/archaeological visual materials for publication in the Handbook of North American Indians, July 27, 1989 through August 25, 1989.
- Rebekah Resnick, Bachelors Candidate, College of the Atlantic. Marine Systems Laboratory, developed and operated living ecosystems for the Space Biosphere Venture Project, January 2, 1989 through March 3, 1989.
- Michael Richardson, High School Graduate. Insect Zoo, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Leslie Sagle, Bachelors Degree. Special Exhibits, assisted with conservation and preparation of ethnographic objects for the "Java Seas" exhibit, June 5, 1989 through September 1, 1989.
- Patricia Sansone, Bachelors Degree. Naturalist Center, developed and implemented the "Behind the Scenes in a Natural History Museum" exhibition, October 11, 1988 through December 30, 1988.
- Christine Skelly, Bachelors Degree. Vertebrate Zoology, studied patterns of bird variation, June 5, 1989 through August 11, 1989.
- Ferial Deer Skye, PhD. Anthropology, catalogued articles for the Menominee Indian archives project, July 3, 1989 through October 31, 1989.

- Denise Slack, Masters Degree. Naturalist Center, performed various duties including working with the general public, conducting school group programs, participating in teacher workshops and developing skills on developing hands-on activities for secondary school science students, July 7, 1989 through August 2, 1989.
- Alton Straub, Bachelors Candidate, Harvard College. Vertebrate Zoology, studied Fish Osteology and Systematics, June 5, 1989 through August 11, 1989.
- Ashley Straupe, Bachelors Candidate, Harvey Mudd College, assisted with carrying out survey of visitor interest and attitudes towards exhibit on human origins and with refurbishing physical anthropology exhibits, June 19, 1989 through September 1, 1989.
- Stephanie Tannert, Bachelors Candidate, Louisiana State University. Anthropology, assisted with survey data collection and editing to develop an exhibition on human evolution and assisted in skeletal biology research, June 2, 1989 through July 31, 1989.
- Amanda Taylor, High School Graduate. Office of Special Exhibits, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer program, June 5, 1989 through July 7, 1989.
- Suroojnauth Tiwari, Bachelors Degree. Botany, studied bio-diversity of the guiana, May 31, 1989 through August 4, 1989.
- Gerald Tom, High School Graduate. Insect Zoo, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Claudia Walks Along, Bachelors Candidate, Montana State University. Anthropology, photographed Crow Indian Collection for catalog, July 10, 1989 through August 11, 1989.
- Courtney Williams, Bachelors Candidate, American University. Education, assisted with education packets, materials, tours, public programs and teacher's workshops, February 2, 1989 through April 30, 1989.
- Virginia Wong, Bachelors Candidate, Tarleton State University. Mineral Science, assisted in translation of Banasa Malayora in the Global Volcanism Program, June 5, 1989 through August 25, 1989.
- Lili Xie, Bachelors Degree. Vertebrate Zoology, assisted in translation of scientific articles to English from Chinese and assisted with SI joint Sino-American Ecological Survey of Xinjiang Province, China, December 16, 1988 through December 16, 1989.
- Tana Yarano, Masters Candidate, George Washington University. Education, assisted in preparation and coordination of educational materials and public programs for the "Crossroads of Continents" exhibition, January 10, 1989 through April 28, 1989.
- Christine Zimmerman, High School, Senneca Valley High School. Anthropology, analyzed animal bones from archaeological sites in Turkey and Syria, February 6, 1989 through May 31, 1989.

NATIONAL PORTRAIT GALLERY

- Christi Barnes, Bachelors Candidate, University of Maryland. Catalog of American Portraits, matched photographs of American portraits from major American public and private collections with appropriate catalog information, February 21, 1989 through May 31, 1989.
- Tasha Bassett, Bachelors Candidate, Evergreen State College. Design and Production, assisted with museum graphics, March 27, 1989 through August 31, 1989.
- Brad Bynum, High School, School without Walls. Library, assisted with library duties, October 4, 1988 through January 18, 1989.
- Tracey Campbell, Bachelors Candidate, American University. Education, developed a proposal to create a puppet show to serve families on weekends and developed the February program for the Museum Education Roundtable, September 14, 1989 through December 15, 1989.
- Anna Choo, Bachelors Candidate, University of California, Berkeley. Education Department, assisted in planning for public programs series, reviewed scripts and tapes, recommended feasibility of programs and assisted in the administrative, technical and logistical aspects of producing public programs highlighting the permanent collection, June 5, 1989 through July 28, 1989.
- Amy Commito, Bachelors Candidate, Smith College. Collections, conducted research on Chicago World's Exposition, September 5, 1989 through December 15, 1989.
- Vandy Cook, Bachelors Candidate, Portland State University. Office of Exhibition, computerized exhibition history and assisted with an exhibition, September 11, 1989 through December 1, 1989.
- Curtis Cox, High School, School without Walls. Library, assisted with library duties, February 22, 1989 through June 14, 1989.
- Jennifer DeSena, High School Graduate. Office of the Historian, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.
- Alice Earle, Bachelors Candidate, American University. Design and Production, assisted with production management tasks, September 21, 1989 through December 16, 1989.
- Marie Friendly, Masters Candidate, George Washington University. Painting and Sculpture, assisted with research for upcoming exhibition featuring a selection of American paintings and sculpture shown at the World's Columbian Exposition, May 8, 1989 through July 31, 1989.
- Jennifer Gentry, Bachelors Candidate, University of Virginia. Library, worked with Vertical File material, stack inventory, auction catalogs and performed bibliographic searching, May 30, 1989 through August 30, 1989.
- Sarah Goldsmith, High School Graduate. Catalog of American Portraits, organized phonographs and portrait data, entered data on computer for artist authority

file and researched and verified artist data, June 13, 1989 through August 11, 1989.

Katherine Gould, Bachelors Candidate, Harvard College. Painting and Sculpture, assisted with research on group of 18th century American and English portraits and assisted with research for an exhibition on American art shown at the 1893 World's Columbian Exposition, June 19, 1989 through August 6, 1989.

Ellen Grayson, Masters Candidate, George Washington University. Curator's Office, wrote labels for painting and sculpture for reinstallation of the Hall of Presidents, September 1, 1989 through December 30, 1989.

Shaunga Hoffler, High School, School without Walls. Exhibition Office, incorporated pending file photographs into permanent files, February 8, 1989 through May 24, 1989.

Bridget Hughes, Bachelors Candidate, Pratt Institute. Exhibit Design, assisted in preparing exhibit layout and working drawings, production schedules and work requests, contracting and purchasing, September 25, 1989 through January 1, 1990.

Kerri Irvine, Bachelors Candidate, Queens University. Library, assisted in operations of the library including filing, bibliographic checking and shelving, May 5, 1989 through September 1, 1989.

Ellen Keiter, Bachelors Candidate, Muhlenberg College. Design and Production, assisted in preparation of scheduling and graphics production work for exhibitions, January 30, 1989 through May 15, 1989.

Judith Kloss, Bachelors Degree. Publications, prepared illustrations and captions for book on the work of Winold Reiss and assisted with other publications, July 17, 1989 through October 17, 1989.

Jessica Kohen, Bachelors Candidate, University of California, Los Angeles. Catalog of American Portraits, assisted work of Career Awareness Program including Artist Authority Database, Southern States Portraits, Portraits of Native Americans, and Photographs and published reproductions, June 19, 1989 through September 15, 1989.

Cheryl Kramer, Bachelors Degree. Office of the Historian, researched contemporary newspapers, journals and books (1815-1845) for references to portraits of Andrew Jackson, April 4, 1989 through June 11, 1989.

Naomi Kukoff, Bachelors Candidate, Wheaton College. Catalog of American Portraits, performed basic research and verified information on portraits from public and private collections in California and entered data on computer data base, June 26, 1989 through August 11, 1989.

Carey Leue, Bachelors Candidate, University of California at Santa Barbara. Curator of Paintings and Sculpture, assisted in research on late eighteenth century American portraits by Copley, West, Stuart, Peale and others that are being studied for a publication of the National Gallery of Art paintings collection, June 19, 1989 through August 11, 1989.

- Camilo Marmolejos, High School, School without Walls. Library, assisted with classification projects, filing and checking bibliographies, September 19, 1989 through December 15, 1989.
- Elizabethine McClure, Bachelors Candidate, Duke University. Public Affairs, performed research in preparation for the Winold Reiss exhibition, developing press contracts, preparing information for background piece for press kits, handled routine responses to calendar listings and updated scrapbooks, May 15, 1989 through August 18, 1989.
- Amy Metsch, Bachelors Candidate, American University. Education Department, developed a proposal for Cultures in Motion Creative Exchange, a series of museum programs and workshops designed to encourage handicapped and non-handicapped persons interested in Portraiture, June 13, 1989 through July 28, 1989.
- Elsa Mezvinsky, Bachelors Degree. Prints, assisted the curatorial staff of the Prints and Drawings collection in the original cataloguing of acquisition, June 19, 1989 through August 25, 1989.
- Vittorio Scala, Bachelors Candidate, Bloomsburg University. Public Affairs, performed background research on "Portraits of the American Law" exhibition in order to target audience, press contacts, invitees for opening reception and assisted in sending press information to calendar listings, May 22, 1989 through August 11, 1989.
- Crystala Sewell, High School, School without Walls. Education Department, assisted with clerical duties, February 17, 1989 through May 5, 1989.
- Dina Smith, Bachelors Candidate, Vanderbilt University. Curator's Office, assisted in writing and augmenting research for new labels for paintings and sculpture in the Hall of Presidents, June 12, 1989 through August 11, 1989.
- Tracy Stewart, High School, School without Walls. Catalog of American Portraits, assisted in maintaining and updating the portrait files, February 13, 1989 through June 16, 1989.
- Shiyana Thenabadu, Bachelors Candidate, Scripps College. Education Department, developed a series of programs and workshops designed to encourage handicapped and non-handicapped persons interested in portraiture, September 21, 1989 through December 14, 1989.
- Claire Tieder, Masters Candidate, George Mason University. Curatorial Department, conducted research for exhibition on American painting and sculpture at the World's Columbian Exposition in Chicago in 1893, September 11, 1989 through December 8, 1989.
- Lucile Walker, Masters Candidate, George Washington University. Painting and Sculpture, wrote new labels for all paintings and sculpture for the reinstallation of the Hall of Presidents, February 6, 1989 through April 30, 1989.

- Isabella Wiedersich, Freie Universitat Berlin. Catalog of American Portraits, catalogued collections and performed other various tasks including data entry, labeling and filing photographs, assigning names to Artists' File using D-Base III and creating files using auction catalogs, July 17, 1989 through August 11, 1989.
- Marianna Williams, Bachelors Candidate, Northern Virginia Community College. Catalog of American Portraits, assisted staff with verifying photographic data, labeling, integrating information into master file and conducting research, February 15, 1989 through June 30, 1989.
- Laura Woodson, Bachelors Candidate, Smith College. History of American Culture, conducted research on Peale family letters, September 6, 1989 through December 15, 1989.
- Karen Yoder, High School Graduate. Library, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

OFFICE OF EXHIBITS CENTRAL

- James Baergen, High School Graduate. Fabrication Unit, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.
- Linley Logan, Bachelors Degree. Specimen Packing and Handling Laboratory, packed and crated "Plains Indian Arts: Continuity and Change" traveling exhibit, July 31, 1989 through October 20, 1989.
- David Sheldon, Masters Candidate, University of Maryland. Model Shop, made molds and casts in fiberglass for the World War I mannequins for NASM exhibition, September 25, 1989 through December 1, 1989.

OFFICE OF HORTICULTURE

- Joseph Padilla, High School Graduate. Office of Horticulture, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.

OFFICE OF MUSEUM PROGRAMS

- Heather Baker, Bachelors Degree. Curriculum Programs, assisted in development and implementation of career seminars for interns and assisted in development of resources for Instructional Resources Program and Curriculum Program, May 30, 1989 through September 1, 1989.

- Wahida Mohideen, Museum Professional, National Museums of Kenya. Internships, compiled information on internship programs and opportunities at the Smithsonian Institution and edited material into publication: Internship Opportunities at the Smithsonian, 1989-1991, January 30, 1989 through June 30, 1989.
- Elena Maria Neira-Sarmiento, Visiting Professional, Comunidad Autonoma de Madrid. Performed in depth analysis of structures and systems of management at science and technology museums and centers and researched development and implementation of exhibits and public programming in science for all age levels, July 10, 1989 through July 1, 1990.
- Nancy Rasenti, Bachelors Degree. Curriculum and Instructional Programs, assisted in development and implementation of museum training workshops and the identification, compilation and dissemination of written materials to support the programs, June 5, 1989 through August 11, 1989.

SMITHSONIAN INSTITUTION TRAVELING EXHIBITION SERVICE

- Beth Campbell, Bachelors Candidate, College of Wooster. Program, provided research support for "Views from Space" exhibit, February 2, 1989 through April 28, 1989.
- Lawrence Delclos, Bachelors Degree. Program, assisted with the "Inside Active Volcanoes exhibition, April 24, 1989 through September 29, 1989.
- Evelyn Figueroa, Masters Candidate, George Washington University. Education, assisted in research for education resource materials to accompany the "Contrasts: 40 Years of Change and Continuity in Puerto Rico" exhibition, July 21, 1989 through September 9, 1989.
- Melissa Hallman, Bachelors Candidate, Trinity College. Program, assisted in research and administration for the advance materials sent to exhibitors of SITES exhibitions of British and Irish watercolors and drawings and for an exhibition of the work of Austrian Secessionists, June 12, 1989 through August 25, 1989.
- Zuraidah Hashim, Bachelors Candidate, George Washington University. Assisted in the SITES press office in a variety of duties including compiling press notebooks for exhibitions which are no longer traveling, preparing press kits for upcoming SITES exhibitions and helping at press reviews and the opening reception for "Inside Active Volcanoes," June 12, 1989 through July 28, 1989.
- Rachel Heller, Bachelors Candidate, Brandeis University. Program, provided research support for travelling version of "Field to Factory" exhibition, February 2, 1989 through April 28, 1989.
- Desiree Humphries, Bachelors Degree. Exhibition Production, assisted in research and administration for the "Tropical Rainforests: A Disappearing Treasure" exhibition, June 19, 1989 through August 18, 1989.
- Karen Nichols, Bachelors Degree. Program, provided project assistance for the Tropical Rainforest exhibition, November 14, 1988 through February 3, 1989.

Susie Schnell, Bachelors Candidate, Texas Christian University. Program, provided research support for marketing exhibitions, February 2, 1989 through April 28, 1989.

Becky Sewell, High School, Garrison Forest School. Program, assisted the Publications Director with a variety of projects, February 21, 1989 through March 17, 1989.

Christopher Shrum, Bachelors Candidate, North Arizona University. Scheduling and Exhibitor Relations, provided marketing assistance for the traveling exhibition "Athletes and Heroes." May 22, 1989 through September 1, 1989.

Katherine Swartz, Bachelors Candidate, Marietta College. Public Relations, assisted in SITES press office in a variety of duties including updating press mailing lists, compiling publicity notebooks for exhibitions ending national tours and compiling press materials for upcoming SITES exhibition, June 13, 1989 through August 4, 1989.

NATIONAL DEMONSTRATION LABORATORY

Patrick Boley, Bachelors Candidate, Carleton College. Worked with and researched educational applications of interactive technologies and assisted in the compilation of a database of information on the technologies, June 15, 1989 through August 15, 1989.

Cynthia Plue, Bachelors Candidate, Gallaudet University. Worked with and researched educational applications of interactive technologies and assisted in the compilation of a database of information on the technologies, May 30, 1989 through July 21, 1989.

Daniel Prince, Bachelors Candidate, Carleton College. Worked with and researched educational applications of interactive technologies and assisted in the compilation of a database of information on the technologies, July 6, 1989 through July 28, 1989.

Willis Smith, Masters Degree. Obtained an overview of videodisc/CD-ROM instructional technology, October 18, 1988 through January 15, 1989.

Ashley Suhler, Bachelors Candidate, George Washington University. Worked with and researched educational applications of interactive technologies and assisted in the compilation of a database of information on the technologies, June 5, 1989 through August 1, 1989.

OFFICE OF ELEMENTARY AND SECONDARY EDUCATION

- Sushama Austin, High School, Georgetown Visitation High School. Participated in the Career Awareness Program at the National Museum of African Art, June 26, 1989 through August 31, 1989.
- Leta Bennafield, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the National Air and Space Museum, October 3, 1988 through December 31, 1989.
- Rebecca Bennett, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History, June 26, 1989 through August 31, 1989.
- Victor Bibbins, Bachelors Candidate, Morgan State University. Participated in the Career Awareness Program at the Office of Elementary and Secondary Education, June 26, 1989 through August 31, 1989.
- Rena Brooks, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the National Air and Space Museum and the Office of Folklife Programs, October 3, 1988 through August 31, 1989.
- Shadonne Brown, High School, Academy of Notre Dame. Participated in the Career Awareness Program at the National Air and Space Museum, June 26, 1989 through August 31, 1989.
- Maurice Chesley, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the National Air and Space Museum, June 26, 1989 through August 31, 1989.
- Edward Christian, High School, Ballou Senior High School. Participated in the Career Awareness Program at the National Museum of American History, October 3, 1988 through August 31, 1989.
- Linda Curfman, Bachelors Candidate, University of Iowa. Special Education Program, assisted in the development of two issues of a monthly newsletter for adults with limited reading abilities, May 30, 1989 through July 28, 1989.
- Debbie Defoe, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Portrait Gallery, June 26, 1989 through August 31, 1989.
- Eric Dyson, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History, June 26, 1989 through August 31, 1989.
- Sharon Edwards, High School, McKinley Senior High School. Participated in the Career Awareness Program at the National Air and Space Museum, June 26, 1989 through August 31, 1989.
- Lanesia Evono, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the Archives Center, Museum of American History and at the Office of Equal Opportunity, October 3, 1988 through August 31, 1989.

- Chandanie Girdharry, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the Arthur M. Sackler Gallery, October 3, 1988 through December 31, 1989.
- LaTanya Inman, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Demonstration Laboratory, June 26, 1989 through August 31, 1989.
- Janelle Irick, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Zoological Park, June 26, 1989 through August 31, 1989.
- Niambi Jarvis, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History, June 26, 1989 through August 31, 1989.
- LaShawn Jones, High School Graduate. Participated in the Career Awareness Program at the National Museum of American Art and the National Portrait Gallery, June 26, 1989 through August 31, 1989.
- Nichole Jones, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History and the National Museum of American Art, June 26, 1989 through August 31, 1989.
- Sean Landwing, High School, School Without Walls. Participated in the Career Awareness Program at the National Air and Space Museum, October 3, 1988 through May 31, 1989.
- Che-Wah Lee, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History, June 26, 1989 through August 31, 1989.
- Deidre Lee, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Zoological Park, June 26, 1989 through August 31, 1989.
- Sharon Lee, High School, Academy of Notre Dame. Participated in the Career Awareness Program at the National Air and Space Museum, June 26, 1989 through July 15, 1989.
- Quentin Mitchell, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History, October 3, 1988 through November 30, 1988.
- Tracie Mitchell, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of Natural History, June 26, 1989 through August 31, 1989.
- Nicole Morton, High School, Kelly Miller Jr. High School. Participated in the Career Awareness Program at the Office of Folklife Programs, June 26, 1989 through August 31, 1989.
- Lisa Myers, High School, School Without Walls. Participated in the Career Awareness Program at the National Museum of American History, June 26, 1989 through August 31, 1989.

- Taylora O'Bryant, High School, Banneker Senior High School. Participated in the Career Awareness Program at the Office of the Registrar, June 26, 1989 through August 31, 1989.
- Elianna Ortiz, High School, School Without Walls. Participated in the Career Awareness Program at the National Air and Space Museum, October 3, 1988 through May 31, 1989.
- Gregory Owens, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the Arthur M. Sackler Gallery, October 3, 1988 through December 31, 1989.
- Semone Reddock, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the Office of Folklife Programs, June 26, 1989 through August 31, 1989.
- Adam Reichman, High School, Edmund Burke High School. Participated in the Career Awareness Program at the National Air and Space Museum, June 26, 1989 through August 31, 1989.
- Deirdre Simon, High School, Roosevelt Senior High School. Participated in the Career Awareness Program at the National Air and Space Museum, October 3, 1988 through August 31, 1989.
- Kori Spriggs, High School, School Without Walls. Participated in the Career Awareness Program at the National Air and Space Museum, October 3, 1988 through August 31, 1989.
- Tracey Thomas, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of American History, June 26, 1989 through August 31, 1989.
- Melanie Wilcox, Bachelors Candidate, Kutztown University. Participated in the Career Awareness Program at the National Museum of Natural History, June 26, 1989 through August 31, 1989.
- April Williams, High School, Banneker Senior High School. Participated in the Career Awareness Program at the National Museum of American History, June 26, 1989 through August 31, 1989.
- Lisa Williams, High School, Eastern Senior High School. Participated in the Career Awareness Program at the National Museum of American History, October 3, 1988 through August 31, 1989.

OFFICE OF FOLKLIFE PROGRAMS

- Denise Cronin, Bachelors Candidate, George Mason University. Conducted research on the 25th anniversary of the Festival of American Folklife cookbook, September 25, 1989 through December 20, 1989.
- Julia Eisenberg, Bachelors Candidate, University of California, Berkeley. Served as Chief Volunteer Coordinator in the French-American program for the 1989 Festival of American Folklife, June 14, 1989 through July 14, 1989.

- Carmelita Hotz, Bachelors Degree. Researched craft items available for sale at the Festival of American Folklife Museum Shop and developed descriptive labels for these items to inform the public, April 17, 1989 through June 16, 1989.
- Catherine Johnson, Masters Candidate, George Washington University. Compiled and annotated a collection of key documents and discussion notes related to the planning and management of the Festival of American Folklife and assisted in the coordination of a Festival program, February 13, 1989 through September 10, 1989.
- Daniel Lopez, Bachelors Candidate, Prescott College. Conducted research on Native American History focusing on the Tohono O'Odham Tribe, July 13, 1989 through August 9, 1989.
- Tammy Pertillar, Bachelors Candidate, Mount Holyoke College. Conducted research on ethnic historical document for the "The Hispanic American Festival: The Latino Community in the Making" exhibition and supervised Puerto Rican area of Caribbean Program of the 1989 Festival of American Folklife , June 5, 1989 through August 18, 1989.
- Kaota Saepharn, Bachelors Candidate, University of California at Berkeley. Conducted research on the verbal dueling of the Iu Mien of Laos and participated in the Folklore Summer Institute, June 19, 1989 through August 11, 1989.
- Cynthia Thorn, Bachelors Candidate, San Francisco State University. Assisted with the Hawaiian Program, Festival of American Folklife and the Folklore Summer Institute, June 19, 1989 through July 15, 1989.
- Camille Tomlin, Bachelors Candidate, University of California at Los Angeles. Conducted research, September 18, 1989 through November 17, 1989.
- Natalie Weathers, Bachelors Candidate, Vassar College. Coordinated documentation of ritual dance and musical performances and workshops presented in the Caribbean Program, Festival of American Folklife, June 12, 1989 through August 25, 1989.

OFFICE OF INTERDISCIPLINARY STUDIES

- Sheri Foley, Bachelors Candidate, Mary Baldwin College. Assisted with daily operations of the office, April 21, 1989 through May 30, 1989.

OFFICE OF PUBLIC AFFAIRS

- Orlando Campos, High School Graduate. Participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

Leslie Logan, Bachelors Degree. Developed a public relations outreach program to the Native American population, October 3, 1988 through September 22, 1989.

William Price, Bachelors Candidate, St. Peter's College. News Bureau, assisted with all aspects of the News Bureau, September 5, 1989 through December 15, 1989.

Cardinal Rieger, Bachelors Candidate, Washburn University. Assisted in all areas of the News Bureau, May 22, 1989 through August 4, 1989.

Carol Tang, Bachelors Candidate, University of California at Berkeley. News Bureau, assisted in press releases, press conferences and other duties and assisted in developing Outreach to Asian American community, June 5, 1989 through August 4, 1989.

OFFICE OF TELECOMMUNICATIONS

Ward Elwood, High School Graduate. Participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship Program, July 10, 1989 through August 11, 1989.

Dennis Foley, Bachelors Candidate, George Washington University. Developed technical skills in audio production for broadcast, September 18, 1989 through December 22, 1989.

Curt Lukowski, Bachelors Candidate, University of Maryland. Served as Production Assistant for "Here at the Smithsonian" and other office video projects, March 3, 1989 through May 15, 1989.

SMITHSONIAN INSTITUTION PRESS

Susanne Boeller, Masters Candidate, University of Stuttgart. Acquisitions Division, conducted research on outstanding photographs for Durer's Animals by Colin Eisler, September 21, 1989 through December 15, 1989.

Margaret Bradford, Bachelors Candidate, Oberlin College. Collection of Recordings, conducted research, wrote, edited and proofread materials related to recording projects, January 3, 1989 through January 30, 1989.

Leezie Kim, High School Graduate. Recordings Division, participated in "Intern '89", the Office of Elementary and Secondary Education's national summer internship program, June 5, 1989 through July 7, 1989.

Henry Lincoln, Bachelors Candidate, Yale University. Smithsonian Books Division, conducted research, wrote, edited and proofread materials on two publications, IMAGES and BIRDS, June 5, 1989 through August 25, 1989.

SMITHSONIAN MAGAZINE

Mark LeGolvan, High School, St. Johns High School. Production Department, received an overview of the production department of a commercial magazine, May 15, 1989 through June 2, 1989.

NATIONAL ASSOCIATE PROGRAM

Angela Cox, Bachelors Candidate, University of the District of Columbia.

Contributing Membership, worked with James Smithsonian Society contributors, July 10, 1989 through September 1, 1989.

Marybeth Reilly, Bachelors Candidate, Northern Virginia Community College. Travel Program, assisted in arranging Southeast Texas Bird and Big Bend Tours, September 5, 1989 through December 14, 1989.

Deborah Robinson, Bachelors Candidate, University of Virginia. Travel Program, assisted with mailings, data entry, and registration for programs, May 22, 1989 through June 30, 1989.

RESIDENT ASSOCIATE PROGRAM

Jill Abbott, Bachelors Candidate, Kalamazoo College. Public Affairs, assisted with daily office duties; prepared and disseminated publicity and information on RAP events; assisted with execution of RAP events, March 27, 1989 through June 2, 1989.

Marisol Espina-Ruiz, Museum Professional, National Museum of Anthropology of Mexico. Studio Arts, identified resources and developed programs on Latin American studio arts and crafts, January 1, 1989 through May 15, 1989.

Alyssa Gasperow, High School, Churchill High School. Young Associates Program, compiled information to write grant proposals for RAP projects, conducted audience research study, explored co-sponsorship of programs with non Smithsonian museums, January 31, 1989 through May 30, 1989.

Carol Lillienstein, Bachelors Candidate, State University of New York at Binghamton. Adult Courses, assisted with course development and management and participated in the planning and management of a major museum continuing education program, June 5, 1989 through August 4, 1989.

Douglas Mossman, Masters Candidate, University of Akron. Public Affairs, prepared publicity and information on all RAP events and disseminated information to media and community, September 5, 1989 through December 1, 1989.

Salina Muellich, Bachelors Degree. Public Affairs, performed various tasks including archiving, preparation of publicity and information on RAP events, dissemination of information to the media and the community and actual execution of PR at RAP events, May 29, 1989 through August 25, 1989.

- Christine Multra, Bachelors Candidate, Gallaudet University. Discovery Theater, assisted with reservations, development of learning guides, preparation of promotional materials and assisted performers for Deaf Way Festival and other Discovery Theater, May 22, 1989 through August 18, 1989.
- Phoebe Sloane, Bachelors Degree. Public Affairs, archived, prepared publicity and information on RAP events, disseminated information to media community, executed public affairs at RAP events, January 9, 1989 through May 12, 1989.

OFFICE OF ARCHITECTURAL HISTORY & HISTORIC PRESERVATION

- Filiz Buckley, Bachelors Degree. Drew blueprints of Smithsonian buildings on the Mall for Archives and for use in publication, March 6, 1989 through June 6, 1989.
- Abigail Goldberg, Bachelors Candidate, Smith College. Assisted with a catalog raisonne of the architectural history of the National Zoological Park, September 5, 1989 through December 15, 1989.

OFFICE OF INFORMATION RESOURCES MANAGEMENT

- Pui Sang, High School Graduate. Participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.

OFFICE OF PRINTING AND PHOTOGRAPHIC SERVICES

- Diane Curry, Bachelors Candidate, University of Maryland, Baltimore. assisted with studio, location, and historic documentation photography, September 15, 1989 through December 8, 1989.
- Rachel Gilmore, Bachelors Candidate, Goucher College. Photographic Services, assisted with studio, location and historic documentation photography, June 5, 1989 through August 25, 1989.
- Lene Klit, Visiting Professional, Danish National Museum. Served as assistant to the photographers becoming familiar with latest photographic, studio and lab equipment, November 1, 1988 through January 31, 1989.
- Kirsten Levisen, High School Graduate. Office of Printing and Photographic Services, participated in "Intern '89," the Office of Elementary and Secondary Education's national summer internship program, July 10, 1989 through August 11, 1989.

OFFICE OF PROTECTION SERVICES

Arnold Lemmon, Visiting Professional, Brigham Young University. Training, acquired hands-on experience in electronic protection systems, guard operations, protection management, and investigations, May 1, 1989 through June 30, 1989.

Appendix 4

Publications of the Smithsonian Institution Press in Fiscal Year 1989

During the fiscal year, the Smithsonian Institution Press published a total of 263 publications, including tradebooks, catalogs, brochures, and pamphlets. The following are highlights.

TRADEBOOKS

- Berkeley, Ellen Perry, editor. Architecture: A Place for Women. June 1989.
- Bleeker, Pieter, Atlas Ichthyologique des Indes Orientales Neerlandaises (Atlas of Fishes of the Dutch East Indies) Vol IX. May 1989.
- Borden, Carla M. editor. Contemporary Indian Tradition: Voices on Culture, Nature, and the Challenge of Change. January 1989.
- Brooks, Peter W. Cierva Autogiros: The Development of Rotary-Wing Flight. October 1988.
- Broun, Elizabeth. Albert Pinkham Ryder. September 1989.
- Christman, Margaret C.S., The First Federal Congress, 1789-1791. March 1989.
- Crouch, Tom D. A Dream of Wings: Americans and the Airplane, 1875-1905. March 1989.
- Easton, Elizabeth Wynne. The Intimate Interiors of Edouard Vuillard. September 1989.
- Ernst, Carl H., and Roger W. Barbour. Turtles of the World. June 1989.
- Fitzhugh, William W., and Aaron Crowell, editors. Crossroads of Continents: Cultures of Siberia and Alaska. October 1988.
- Friedl, Erika. Women of Deh Koh: Lives in an Iranian Village. May 1989.
- Goode, James M. Best Addresses: A Century of Washington's Distinguished Apartment Houses. November 1988.
- Grove, Nancy. Isamu Noguchi: Portrait Sculpture. May 1989.
- Hart, C.W., Jr. and Janice Clark. An Interdisciplinary Bibliography of Freshwater Crayfish. (Astacoidea and Parastacoidea) from Aristotle through 1985. April 1989.
- Henderson, Amy. On the Air: Pioneers of American Broadcasting. October 1988.
- Higgins, Robert P., and Hjalmar Thiel. Introduction to the Study of Meiofauna. October 88.
- Hirschhoff, Paula M., and Neil G. Kotler, editors. Completing the Food Chain: Strategies for Combatting Hunger and Malnutrition. September 1989.

Johnsgard, Paul A. North American Owls. October 1988.

Keil, Harmut, editor. German Workers' Culture in the United States, 1850-1920. October 1988.

Kidwell, Claudia Brush, and Valerie Steele, editors. Men and Women: Dressing the Part. March 1989.

Lemay, Brian W.J., editor. Science, Ethics, and Food. (Papers and Proceedings of a Colloquium Organized by the Smithsonian Institution). November 1988.

Lentz, Thomas W., and Glenn D. Lowry. Timur and the Princely Vision. May 1989.

Lopez, Donald S.. National Air and Space Museum: A Visit in Pictures. March 1989

Needell, Allan, editor. The First 25 Years in Space. June 1989.

Park, Edwards. Nanette: Her Pilot's Love Story. July 1989.

Rand, Harry. Paul Manship. January 1989.

Riis, Thomas L. Just Before Jazz: Black Musical Theater in New York, 1890 to 1935. September 1989.

Sweeting, C. G. Combat Flying Equipment: U.S. Army Aviators' Personal Equipment, 1917-1945. May 1989.

Thomas, David Hurst, editor. Columbian Consequences, Vol. 1: The Californias, Texas, and the Southwestern Heartland. April 1989.

Washburn, Wilcomb E., volume editor. Handbook of North American Indians: History of Indian-White Relations: Vol. 4. April 1989.

New Directions in American Art Series

Manthorne, Katherine Emma. Tropical Renaissance: North American Artists Exploring Latin America, 1839-1879. September 1989.

Archaeology/Anthropology Series

Archaeological Inquiry

Dillehay. Monte Verde: A Late Pleistocene Settlement in Chile, Vol. 1: A Paleoenvironment and Site Context. July 1989.

Sampson, Garth C. Stylistic Boundaries among Mobile Hunter-Foragers. November 1988.

Ethnographic Inquiry

Allen, Catherine J. The Hold Life Has: Coca and Cultural Identity in an Andean Community. October 1988.

Fardon, Richard. Raiders and Refugees: Trends in Chamba Political Development. October 1988.

Merrill, William L. Raramuri Souls: Knowledge and Social Process in Northern Mexico. November 1988.

Peacock, James L., and Ruel W. Tyson, Jr. Pilgrims of Paradox: Calvinism and Experience among the Primitive Baptists of the Blue Ridge. August 1989.

Weiner, Annette B., and Jane Schneider, editors. Cloth and Human Experience. August 1989.

Werbner, Richard P. Ritual Passage, Sacred Journey: The Form, Process, and Organization of Religious Movements. June 1989.

Classics of Smithsonian Anthropology

Mindeleff, Victor. Introduction by Peter Nabakov. A Study of Pueblo Architecture: Tusayan and Cibola Bureau of American Ethnology, 8th Annual Report (Reissue). July 1989.

Smithsonian Library of the Solar System

Wentzel, Donat G. The Restless Sun. March 1989.

DISTRIBUTION ONLY

Newman, Debra L., compiler. Black History: A Guide to Civilian Records. February 1989.

COPUBLICATIONS

With AirLife

Jackson, Robert. Canberra: The Operational Record. May 1989.

Penrose, Harald. An Ancient Air: A Biography of John Stringfellow of Chard. February 1989.

With Air Research

Brett, R. Dallas. History of British Aviation 1908-1914. June 1989

Parry, Simon W. Intruders over Britain: The Luftwaffe Night Fighter Offensive 1940-45. June 1989.

With Conway Maritime

Andersson, Hans G.. Saab Aircraft since 1937. May 1989.

Swanborough, Gordon, and Peter M. Bowers. United States Military Aircraft since 1909. May 1989.

DIRECT MAIL, Smithsonian Books

Goodwin, Joe, editor. Images of America. June 1989.

Kennedy, Roger, editor

The Smithsonian Guide to Historic America:

The Deep South, June 1989

The Great Lakes, August 1989

The Mid-Atlantic States, July 1989

Northern New England, May 1989

The Pacific States September 1989

Kopper, Philip. The Smithsonian Book of North American Indians before the Coming of the Europeans. February 1989.

Lewin, Roger. In the Age of Mankind: A Smithsonian Book of Evolution. June 1989.

Page, Jake, and Eugene Morton. Introduction by S. Dillon Ripley. Lords of the Air: The Smithsonian Book of Birds. August 1989.

Copublished with Marine Mammal Fund

Minasian, Stan. The Magnificent Whales and other Marine Mammals of North America. April 1989.

Copublished with Clarkson N. Potter, Inc.

Schick, Ron. The View from Space: American Astronaut Photography 1962-1972. 1988.

Copublished with Stewart Tabori & Chang

Kennedy, Roger, editor. The Smithsonian Guide to Historic America: Virginia and the Capital Region. July 1989.

Kennedy, Roger, editor. The Smithsonian Guide to Historic America: Southern New England. July 1989.

DIRECT MAIL, Smithsonian Recordings

Archangelo Corelli: The Twelve Trio Sonatas of Opus 3. Performed by Smithsonian Chamber Players. Single compact disc, No. ND 035. April 1989

Beethoven Piano Trios, Op. 70. Performed by the Castle Trio. Single compact disc, No. ND 036. April 1989

The Smithsonian Collection of Classical Jazz, Revised. Various performers. Five compact discs, No. RD 033. April 1989

American Musical Theater: Shows, Songs & Stars. Various performers. Four compact discs, four cassettes, or six LPs, No. RD 036. January 1989

Jazz Piano. Various performers. Four compact discs, four cassettes, or six LPs, No. RD 039. July 1989

FEDERAL SERIES

Contributions to Anthropology

31. Laughlin, Robert M. "The Great Tzotzil Dictionary of Santo Domingo Zinacatan with Grammatical Analysis and Historical Commentary." December 1988.

Contributions to Botany

67. Palmer, Patricia G. "A Scanning Electron Microscope Survey of the Epidermis of East African Grasses, V, and West African Supplement." November 1988.
68. Judziewicz, Emmet J. "Morphological, Anatomical, and Taxonomic Studies in Anomochloa and Streptochaeta (Poaceae: Bambusoideae)." March 1989.
69. Soderstrom, Thomas R. "A Revision of the Genus Olyra and the New Segregate Genus Parodiolyra (Poaceae: Bambusoideae: Olyreae)." June 1989.
70. Funk, V.A. "A Bibliography of Plant Collectors in Bolivia." January 1989.
72. Soderstrom, Thomas R. "The Woody Bamboos (Poaceae: Bambuseae) of Sri Lanka: A Morphological-Anatomical Study." December 1988.

Contributions to the Earth Sciences

28. Marvin, Ursula B., editor. "Field and Laboratory Investigations of Meteorites from Victoria Land and the Thiel Mountains Region, Antarctica, 1982-1983 and 1983-1984." February 1989.

Contributions to the Marine Sciences

34. Phillips, Ronald C. "Seagrasses." December 1988.

Contributions to Paleobiology

65. Cooper, G. Arthur. "Jurassic Brachipods of Saudi Arabia." July 1989.
66. McDonald, Jerry N. "The Autochthonous North American Musk Oxen Bootherium, Symbos, and Gidleva (Mammalia: Artiodactyla: Bovidae)." June 1989.

Contributions to Zoology

466. Chace, Fenner A., Jr. "The Caridean Shrimps (Crustacea: Decapoda) of the Albatross Philippine Expedition, 1907-1010, Part 5: Family Alpheidae." December 1988.
467. Kornicker, Louis S. "Bathyal and Abyssal Myodocopid Ostracoda of the Bay of Biscay and Vicinity." August 1989.
469. Balouet, Jean Christophe. "Fossil Birds from Late Quaternary Deposits in New Caledonia." January 1989.
470. Kornicker, Louis S. "New Ostracoda (Halocyprida: Thaumatoocyprididae and Halocyprididae) from Anchialine Caves in the Bahamas, Palau, and Mexico." February 1989.
471. Vari, Richard P. "A Phylogenetic Study of the Neotropical Characiform Family Curimatidae (Pisces: Ostariophysi)." February 1989.
472. Flint, Oliver S., Jr. "Studies of Neotropical Caddisflies XXXIX: The Genus Smicridea in the Chilean Subregion (Trichoptera: Hydro psychidae)." February 1989.
473. Manning, Raymond B. "The Pinnixa cristata Complex in the Western Atlantic, with a Description of Two New Species (Crustacea: Decapoda: Pinnotheridae)." August 1989.
475. Kornicker, Louis S. "Ostracoda (Myodocopina, Cladocopina, Halocypridina) Mainly from Anchialine Caves in Bermuda." May 1989.
476. Kenk, Roman. "Revised List of the North American Freshwater Planarians (Platyhelminthes: Tricladida: Paludicola)." January 1989.
482. Abele, Lawrence G. "The Decapod Crustaceans of the Panama Canal." March 1989.
483. Kornicker, Louis S. "Troglobitic Ostracoda (Myodocopa: Cypridinidae, Thaumatoocyprididae) from Anchialine Pools on Santa Cruz Island, Galapagos Islands." February 1989.

490. Vari, Richard P. "Systematics of the Neotropical Characiform Genus Pseudo curimata Fernandez-Yepe (Pisces: Ostariophysi)." September 1989.
494. McGinley, Ronald J. "A Catalog and Review of Immature Apoidea (Hymenoptera)." August 1989.

Studies in History and Technology

49. Janssen, Barbara Suit. "Technology in Miniature: American Textile Patent Models 1819-1840." February 1989.
50. Vogel, Robert M. "Vertical Transportation in Old Back Bay, A Museum Case Study: The Acquisition of a Small Residential Hydraulic Elevator." December 1988.

MUSEUMS, BUREAUS, AND RELATED ORGANIZATIONS

American Historical Association

American Historical Association Annual Report, 1987. October 1988.

Anacostia Museum

Hutchinson, Louise, and Gail Lowe. Kind Regards of Solomon G. Brown. June 1989. Exhibition catalog.

James, Portia. The Real McCoy: African-American Invention and Innovation, 1619-1930. October 1989. Exhibition catalog.

Arthur M. Sackler Gallery

Arthur M. Sackler Calendar of Events. Brochure, issued bimonthly.

Hirshhorn Museum and Sculpture Garden

HMSG Calendar of Events. Published three times a year.

National Air and Space Museum

Archival Videodisc 6 (Lunar Mission Imagery). September 1989.

National Museum of African Art

Calendar of Programs and Exhibitions. Published three times a year.

Barley, Nigel. Foreheads of the Dead: An Anthropological View of Kalabari Ancestral Screens. November 1988. Exhibition catalog.

National Museum of Natural History

Atoll Research Bulletin 312-320. March 1989.

Office of Elementary and Secondary Education

Let's Go to the Smithsonian. Quarterly newsletter.

Art to Zoo. Quarterly newsletter.

Office of Environmental Management and Safety

Brochures:

Portable Power Tool Safety

Ground Fault Circuit

Safe Material Handling

Lockout

Welding, Cutting, Brazing

Respiratory Protection

Office of Fellowships and Grants

Smithsonian Opportunities for Research and Study. October 1988.

Fellowships-in-Residence at the Smithsonian Institution. Poster.

Office of the Secretary

Bylaws of the Board of Regents. Brochure. April 1989.

Invitation to annual garden party. May 1989.

INSTITUTIONAL REPORTS

Smithsonian Year, 1988. April 1989.

Smithsonian Year, 1988. (Microfiche edition). August 1989.

Appendix 5

Publications of the Staff of the Smithsonian Institution
and Its Subsidiaries in Fiscal Year 1989

JOSEPH HENRY PAPERS

- Rumm, John C. "Working Through the Records: Using Business Records to Study Workers and the Management of Labour." Archivaria 27 (Winter 1988-89): 67-96.
- Theerman, Paul H. "Edinburgh" and "Physics" in Victorian Britain: An Encyclopedia, ed. Sally Mitchell (New York: Garland Publishing, 1988).

NATIONAL ZOOLOGICAL PARK

Animal Exhibit Departments

- Beck, B.B. and M. Power. 1988. Correlates of sexual and maternal competence in captive gorillas. Zoo Biology 7:339-350.
- Bronikowski, E.J., B.B. Beck and M. Power. 1989. Innovation, Exhibition and Conservation: Free-ranging Tamarins at the National Zoological Park. Proceedings of the American Association of Zoological Parks and Aquarium Annual Conference.
- Brown, J.L., D. E. Wildt, L.G. Phillips, Jr., J. Seidensticker, S.B.U. Fernando, S. Miththapala and K.L. Goodrowe. 1989. Adrenal-pituitary-gonadal relationships and ejaculate characteristics and in captive leopards (Panthera pardus kotiya) isolated on the island of Sri Lanka. Journal of Reproduction and Fertility 85:605-613.
- Crissey, S., E.F. Stephens, F. Cusimano and S. Derrickson. 1989. A submersible diet for ducks to control disease and cost. Journal of Zoo and Wildlife Medicine 20(1):68-72.
- Hitchcock, P., J. Seidensticker and Effendy Sumardja. 1988. Dumoga-Bone National Park: conservation for development in North Sulawesi. A report from the Indonesia 1982-1986 Conservation for Development Programme, World Wildlife Fund, Bogor. 65 pp.
- Marcellini, D.L. and T.A. Jenssen. 1989. Thermal ecology of the tropical iguanid lizard, Leiocephalus schreibersi. American Midland Naturalist 122:44-50.
- Miththapala, S., J. Seidensticker, L.G. Phillips, Jr., S.B.U. Fernando and J.A. Smallwood. 1989. Identifying individual leopards (Panthera pardus kotiya) using spot pattern variation. Journal of Zoology, London 218:527-536.
- Seidensticker, J. 1988. From the ridge of the fan. ZooGoer 17(6):27-30.
- . 1989. Bat cave. ZooGoer 18(4):20-21.
- Xanten, W.A., D.S. Kessler and J. Grumm. 1988. Breeding and Management of Prevost squirrel Callosciurus prevosti at the National Zoological Park.. International Zoo Yearbook, Vol. 27 pp. 283-286.

Office of Public Affairs

- Bretzfelder, Marc 1989. Artificial Reproduction: A "last hope" for some endangered species. Smithsonian News Service, February.
- , Marc 1989. Panda's pseudopregnancy reveals valuable information. Smithsonian Institution Research Reports, No. 56 (Winter)
- Gibson, Margaret F. 1989. F.B.I. investigates tamarins. Zoogoer V. 18(4):25.
- Hoage, Robert J. 1989 Perceptions of animals in American culture. Zoogoer V. 18(4):31.
- Morgan, Michael M. 1989. William Temple Hornaday: Visionary of the National Zoological Park. Smithsonian News Service, February.

Department of Animal Health

- Andrews, J.C., J.G. Howard, G.D. Bavister and D.E. Wildt. 1989. Use of salt-stored zonae pellucidae for evaluating sperm capacitation in the domestic cat. Proceedings: Serozo Symposium on Fertility in Mammals p. 72.
- Brown, J.L., M. Bush, D. Jannsen, C. Packer, A. Pusey, S. Monfort and D.E. Wildt. 1989. Influence of age and gender on reproductive and endocrine characteristics in free-ranging East African lions. Proceedings: Society for the Study of Reproduction, Biology of Reproduction, Supplement 1,40:158.
- Howard, J.G., S.L. Hurlbut and M. Bush. 1989. Compromised zona binding and penetration of homologous oocytes by spermatozoa from teratospermic domestic cats. Proceedings: Society for the Study of Reproduction, Biology of Reproduction Supplement 1,40:161.
- , S.L. Hurlbut, C. Morton, F. Morton, M. Bush and D.E. Wildt. 1989. Pregnancies in the domestic ferret after laparoscopic artificial insemination with frozen-thawed spermatozoa. Proceedings: American Society of Andrology, Journal of Andrology 10:135.
- , S.L. Hurlbut, M. Bush and D.E. Wildt. 1989. Sperm function in leopard cats (Felis bengalensis) as measure by in vitro penetration of zona-free hamster ova and zona-intact domestic cat oocytes. Proceedings: Serozo Symposium on the Fertility of Mammals p. 79.
- Johnson, L.A., A.M. Miller, S.J. O'Brien and D.E. Wildt. 1989. Culture medium and protein supplementation influence in vitro fertilization and embryo development in the domestic cat. Serozo Symposium on the Fertility of Mammals p. 79.
- , S.J. O'Brien and D.E. Wildt. 1989. In vitro maturation and fertilization of domestic cat follicular oocytes. Proceedings: International Embryo Transfer Society, Theriogenology 31:207.
- Miller, A.M., L. A. Johnston, S.L. Hurlbut and D.E. Wildt. 1989. Intrafollicular domestic cat oocytes and later corpus luteum function are sensitive to the timing of gonadotropin stimulation. Proceedings: Society for the Study of Reproduction, Biology of Reproduction Supplement 1,40:96.
- , M.E. Roelke, K.L. Goodrowe, J.G. Howard and D.E. Wildt. 1989. Oocyte recovery, maturation and fertilization in vitro in puma (Felis concolor). Proceedings: International Embryo Transfer Society, Theriogenology 31:228.

- Monfort, S.L., K.D. Dahl, N.M. Czekala, L. Stevens, M. Bush and D.E. Wildt. 1989. Monitoring ovarian function and pregnancy in the giant panda (Ailuropoda melanoleuca) by evaluating urinary bioactive follicle-stimulating hormone and steroid metabolites. Journal of Reproduction and Fertility 85:203-212.
- Pontbriand, D., J.G. Howard, M.C. Schiewe, L.D. Stuart and D.E. Wildt. 1989. Effects of cryoprotective diluent and method of freeze-thawing on survival and acrosomal integrity of ram spermatozoa. Cryobiology 26:341-354.
- Rall, W.F., M.C. Schiewe, M. Bush and D.E. Wildt. 1989. Cryopreservation of oocytes and embryos collected from wildlife species. Proceedings: Annual Meeting of the Society of Cryobiology abstract 80.
- Rideout, B.A., R. J. Montali, R.S. Wallace, M. Bush, L.G. Phillips, Jr., T.T. Antorovych and S.G. Sabnis. 1989. Renal medullary amyloidosis in Dorcas gazelles. Veterinary Pathology 26:129-135.
- Schmidt, P.M., S.L. Monfort and D.E. Wildt. 1989. PMSG source influences fertilization and fresh or thawed embryo development but the effect is genotype-specific. Gamete Research 23:11-20.
- Tear, J.A., B.L. Raphael, M. Bush. 1988. Pharmacokinetics of intravenous and intramuscular gentamicin in Markhor (capra falconeri). Journal of zoo Animal Medicine 19(3):110-115.
- Wasser, S.K., L. Risler and R.A. Steiner. 1988. Excreted steroids in primate feces over the menstrual cycle and pregnancy. Biology of Reproduction 39:862-872.
- Wildt, D.E. and U.S. Seal. 1988. Editors for monograph, Research Priorities for Single Species Conservation Biology. National Science Foundation, Washington, D.C.
- , 1989. Strategies for the practical application of reproductive technologies to endangered species. Zoo Biology supplement 1:17-20.
- and K.L. Goodrowe. 1989. The potential for embryo technology in the black-footed ferret. In: Conservation Biology and the Black-Footed Ferret, U.S. Seal, E.T. Thorne, M.A. Bogan and S.H. Anderson, eds. Yale University Press, New Haven, pp. 160-176.
- , J.G. Howard, M. Bush and W.F. Rall. 1989. Strategies for cryopreservation of spermatozoa from wildlife species. Proceedings: Annual Meeting of the Society of Cryobiology abstract 79.
- , M. Bush, C. Morton, F. Morton and J.G. Howard. 1989. Semen characteristics and testosterone profiles in ferrets kept in long-day photoperiod, and the influence of hCG timing and sperm dilution on pregnancy rate after laparoscopic insemination. Journal of Reproduction and Fertility 86:349-358.

Department of Pathology

- Armstrong, D.L., R.J. Montali, A.B. Doster and K.R. Kazacos. 1989. Cerebrospinal Nematodiasis in Macaws due to Baylisascaris procyonis. Journal of Zoo and Wildlife Medicine 20(3) pp. 354-359.
- Montali, R.J. and K. Kelly. 1989. Pathological survey and review of diseases of captive Maned Wolves (Chrysocyon brachyurus) and Bush Dogs (Speothos venaticus). Proceedings of the International Symposium of Diseases of Zoo Animals, pp. 35-43, Dortmund, Germany.
- , R. Wallace, L.G. Phillips, Jr., M. Bush, M. Roberts, S. Crissey, K. Warnell, O. Oftedal, T. Shaugnessy and L. Rabin. 1989. Hepatopathy and hypercholesterolemia in red pandas associated with a diet change. In: Red Panda Biology pp 31-40, SPB Academic Publishing, The Hague.

- Munson, L., S.K. Chandler and D.H. Schlafer. 1988. Cultivation of bovine fetal and adult endometrial epithelial cells. Journal of Tissue Culture Techniques 11:129-133.
- , S.K. Chandler and D.H. Schlafer. 1988. Long-term culture of bovine trophoblastic cells. Journal of Tissue Culture Techniques 11:123-128.
- , C.A. Wiley, W.P. Heuschele and D.L. Janssen. 1988. Tremors due to hypomyelination in a herd of Angolian springbok (Antidorcas marsupialis angolensis). In Proceedings: American Association of Zoo Veterinarians, Toronto, Ontario, Canada.
- and R.J. Montali. 1989. Diseases and Pathology of Great Apes at the National Zoological Park. Proceedings of meeting on "Fertility in Great Apes", Atlanta, Georgia.
- Nichols, D.K., M.J. Wolff, L.G. Phillips, Jr., and R.J. Montali. 1989. Coagulopathy in Pink-backed Pelicans (Pelecanus rufescens) Associated with Hypervitaminosis E. Journal of Zoo and Wildlife Medicine 20(1) pp. 57-61.
- Partington, C.J., C.H. Gardiner, D. Fritz, L.G. Phillips, Jr. and R. J. Montali. 1989. Atoxoplasmosis in Bali Mynahs (Leucopsar rothschildi). Journal of Zoo and Wildlife Medicine 20(3) pp. 328-335.
- Ramsay, E.C., R.J. Montali, M. Worley, C.B. Stephensen and K. Holmes. 1989. Callitrichid Hepatitis: Epizootiology of a Fatal Hepatitis in Zoo Tamarins and Marmosets. Journal of Zoo and Wildlife Medicine 20(2) pp. 178-183.
- Rideout, B.A., R.J. Montali, R.S. Wallace, Bush, M., L.G. Phillips Jr., T.T. Antonovych, S.G. Sabnis. 1989. Renal Medullary Amyloidosis in Dorcas Gazelles. Veterinary Pathology 26(2), pp. 129-135, 1989.
- Schiller, C.A., M.J. Wolff, L. Munson, and R.J. Montali. 1989. Streptococcus zooepidemicus Infections of Possible Horsemeat Source in Red-Bellied Tamarins and Goeldi's Monkeys. Journal of Zoo and Wildlife Medicine 20(3) pp. 322-327.

Department of Conservation

- August, P.V., S.G. Ayvazian and J.G.T. Anderson. 1989. Magnetic orientation in a small mammal: Peromyscus leucopus. Journal of Mammalogy 70:1-9.
- Berger, J. 1989. Female Reproductive Potential and Its Apparent Discrimination by Male Mammals. Journal of Mammalogy 70:347-358.
- and M. Kock. 1989. Type I and Type II Errors in the Real World. Journal of Wildlife Diseases 25(3).
- Collins, L., C. Wemmer and J. Smith. 1988. The Small Animal Facility at the Conservation and Research Center of the National Zoological Park. International Zoo Yearbook 27:327-334.
- Dinerstein, E., C. Wemmer and H. Mishra. 1988. Adoption in Greater One-horned Rhinoceros Rhinoceros unicornis. Journal of Mammalogy 69:813-814.
- , 1988. A review of Wild Horses of the Great Basin by Joel Berger. Journal of Mammalogy 69:206-208.
- and C. Wemmer. 1988. Fruits Rhinoceros eat: dispersal of Trewia nudiflora in lowland Nepal. Ecology 69:1768-1774.
- , C. Wemmer and H. Mishra. 1988. Adoption in greater one-horned rhinoceros (Rhinoceros unicornis). Journal of Mammalogy 69(4):813-814.
- Gold, A., S. Tso, P.V. August and W. Wright. 1989. Aquifer delineation using soil surveys. Journal of Soil and Water Conservation 44:232-234.

- Haig, S., J. Ballou and S. Derrickson. 1988. Evaluation of Management Options for Guam Rails Using Pedigree Data. Proceedings of the American Association of Zoological Parks and Aquarium Annual Conference 507-510.
- Hölzenbein, S. and G. Schwede. 1989. Activity and movement patterns of female white-tailed deer during the rut. Journal of Wildlife Management 53:219-223.
- LaBash, C., D. Walters, P. August and C. Smith. 1989. Standardizing a GIS data base. Proceedings of the Environmental System Research Institute Conference, Redlands, CA.
- Lehmkuhl, J.F., R.K. Upreti and U.R. Sharma. 1988. National parks and local development: grasses and people in Royal Chitwan National Park, Nepal. Environmental Conservation 15:143-148.
- McCann, A., J. Lemunyon, L. Thompson, and P. August. 1989. A geographic information system study of Block Island soils. Rhode Island Cooperative Extension, University of Rhode Island.
- McShea, W.J. and D.M. Madison. 1989. Measurements of reproductive traits in a field population of meadow voles. Journal of Mammalogy 70(1):132-141.
- , 1989. Reproductive synchrony and home range size in a territorial microtine. Oikos 56:1-5.
- , L. Hartman, J. Blew and S. Mabey. 1989. Breeding bird census: Tulip tree-hickory forest. Journal of Field Ornithology Supplement, 60:32.
- Schwede, G. H. and Hendrichs. 1989. Mother-infant relations in white-tailed deer (Odocoileus virginianus). Abstracts of posters and papers. Fifth International Theriological Conference, 2:834-835.
- , 1989. A fawn's life. Zoogoeer 18:26-27.
- , 1989. Rote Chorknaben. Das Tier 61-63.
- Smith, C., L. Thompson and P. August. 1989. Error in spatial data: A practical view. Proceedings Environmental System Research Institute Conference, Redlands, CA.
- Stüwe, M. and K. Scribner. 1989. Low Genetic Variability in Reintroduced Alpine Ibex (Capra ibex ibex) Populations. Journal of Mammalogy 70(2):370-373.
- Walters, D.H., P. August and W. Wright. 1989. Legal issues in GIS database development and distribution. Proceedings of the Environmental System Research Institute Conference, Redlands, CA.
- Wemmer, C. and R. Montali. 1988. Latrine use and the subcaudal gland of the brow-antlered deer, Cervus eldi thamin. Journal of Mammalogy, 69(4):815-818.
- and C. Grodinsky. 1988. Reproduction in Captive Female Brow-antlered Deer (Cervus eldi thamin). Journal of Mammalogy 69(2):389-393.
- , T. Halverson, M. Rodden and T. Portillo. 1989. The Reproductive Biology of Female Père David's Deer (Elaphurus davidianus). Zoo Biology 8:49-55.
- and M. Sunquist. 1988. Felid Reintroductions: Economic and Energetic Considerations. Proceedings of the Fifth International Snow Leopard Symposium, Srinagar, India, October, 1986. Edited by Helen Freeman, pp. 193-205.
- and V. Krishnamurthy. 1989. Methods for taking standard measurements of live domestic Asiatic elephants. Symposium on Ecology, Biology, Management and Diseases of the Asian Elephant. Mannuthy, Trichur, Kerala, India, January 16-19, 1989.

Department of Zoological Research

- Allen, M.E. and O.T. Oftedal. 1989. Dietary manipulation of the calcium content of feed crickets. Journal of Zoo and Wildlife Medicine 20:26-33.
- Ballou, J.D. 1989. Inbreeding and outbreeding depression in the captive propagation of black-footed ferrets (Mustela nigripes). In U.S. Seal, E.T. Thorne, M.A. Bogan and S.H. Anderson (eds): Conservation Biology and the black-footed Ferret. New Haven, CT, Yale Univ. Press, Pp. 49-68.
- Beissinger, S.R., B.T. Thomas and S.D. Strahl. 1988. Vocalizations, food habits, and nesting biology of the slender-billed kite with comparisons to the snail kite. Wilson Bulletin 100:604-615.
- Boness, D.J., W.D. Bowen and O.T. Oftedal. 1988. Evidence of polygyny from spatial patterns of hooded seals (Cystophora cristata). Canadian Journal of Zoology 66:703-706.
- Boness, D.J. 1989. Review of "American fur seal diplomacy: The Alaskan fur seal controversy," By James Thomas Gay. Journal of Wildlife Management 53(1):272-273.
- Brownell, R.L., Jr., K. Ralls and W.F. Perrin. 1989. The plight of the "forgotten" whales. Oceanus 32:5-9.
- Chaudhuri, M., D.G. Kleiman, D.E. Wildt, M. Bush, E.S. Frank and R.B. Thau. 1988. Urinary steroid concentrations during natural and gonadotrophin-induced oestrus and pregnancy in the giant panda (Ailuropoda melanoleuca). Journal of Reproduction and Fertility 84:23-28.
- Crissey, S.D., E.F. Stevens, F. Cusimano and S. Derrickson. 1989. A submersible diet for ducks to control disease and cost. Journal of Zoological Wildlife Medicine 20(1):68-72.
- Derrickson, K. 1988. Variation in repertoire presentation in northern mockingbirds. Condor 90:592-606.
- . 1988. Review of "Voices of all the mockingbirds, thrashers and their allies - Family Mimadae." Auk 105:822-823.
- . 1989. Review of "The birder's handbook: A field guide to the natural history of North American birds." ZooGoer 18:28-29.
- . 1989. Bigamy in Northern mockingbirds: circumventing female-female aggression. Condor 91:728-732.
- Domingues, R.A.P., H.R.L. Pugialli and J.M. Dietz. 1989. Densidade e diversidade de fauna fitotelmata em bromelias de quatro tipos de florestas degradadas. Review Brasil Biology 49(1):125-129, Fevereiro - Rio de Janeiro, RJ.
- Foose, T.J. and J.D. Ballou. 1988. Population management: theory and practice. International Zoo Yearbook 27:26-41.
- Gittleman, J.L. and S.D. Thompson. 1989. Energetics and animal behavior. American Zoologist 28:813-814.
- , and S.D. Thompson. 1989. Energy allocation in mammalian reproduction. America Zoologist 28:863-876.
- Glatston, A. and M. Roberts. 1988. The current status and future prospects of the red panda (Ailurus fulgens) studbook population. Zoo Biology 7:47-59.
- Gradwohl, J. and R. Greenberg (eds.). 1988. Saving the tropical forests. Earthscan Press.
- and R. Greenberg. 1989. Migratory non-game bird programs of the Fish and Wildlife Services. Audubon Wildlife Reports.

- Greenberg, R. 1988. Seasonal plumage dimorphism in the swamp sparrow. Journal of Field Ornithology V. 59(2):149-154.
- Haig, S.M., J.D. Ballou and S.R. Derrickson. 1988. Demographic analyses of Guam rails using pedigree data. Proceedings of the American Association of Zoological Parks and Aquariums Pp. 507-510.
- , J.D. Ballou and S.R. Derrickson. 1988. Demographic analyses of Guam rails using pedigree data. Proceedings of the American Association of Zoological Parks and Aquariums Pp. 507-510.
- Kleiman, D.G., R.J. Hoage and K.M. Green. 1988. The lion tamarins, Genus Leontopithecus. In: Ecology and behavior of neotropical primates, Vol. 2., pp. 299-347. R. Mittermeir, A.B. Rylands, A.F. Colmbra-Filho and G.A.B. de Fonseca, eds. World Wildlife Fund, Washington, D.C.
- Kleiman, D.G., B. Beck, J. Dietz, L. Dietz and J.D. Ballou. 1988. Locals help to save tamarins. On the Edge 34:4-5.
- , 1989. Reintroduction of captive mammals for conservation: guidelines for reintroducing endangered species into the wild. BioScience, 39:152-160.
- McDonald, M.V. 1989. Function of song in Scott's seaside sparrows Ammodramus maritimus peninsulae. Animal Behaviour 38(3):468-485.
- , 1989. Technical status survey of two Florida seaside sparrows, and taxonomic review of the seaside sparrow assemblage. Report 32. In: Report to the Endangered Species Office, U. S. Fish and Wildlife Service.
- Morton, E.S. 1988. The truly long termed trend in populations of the purple martin. Purple Martin Update 1: 20-22.
- , 1988. Dawnsong of the purple martin. Atlantic Naturalist 38: 38-48.
- , 1988. "Innate": Outdated and inadequate or linguistic convenience? Brain and Behavioral Sciences 11: 642-643.
- and N. Tsipoura. 1988. Song-type distribution in a population of Kentucky warblers. Wilson Bulletin 100: 9-16.
- , 1989. Purple dawn. Purple Martin Update 2:10-13.
- , 1989. Female hooded warbler plumage does not become more male-like with age. Wilson Bulletin 101: 460-462.
- and R. Greenberg. 1989. The outlook for migratory songbirds: "Future shock" for birders. American Birds 43:178-183.
- Montali, R., R. Wallace, L. Phillips, M. Bush, M. Roberts, S. Crissey, K. Warnell, O. Oftedal, M. Edwards and L. Rabin. 1989. Hepatopathology and hypercholesterolemia in red pandas associated with a diet change. Pp. 31-41 in Red panda biology, A. Glatston, ed. SPB Academic Publishing, The Hague.
- Oftedal, O.T. and J.G. Gittleman. 1989. Patterns of energy output during reproduction in carnivores. Pp. 355-378 in: Carnivore behavior, ecology and evolution. J. G. Gittleman (eds.), Cornell University Press, Ithaca, N.Y.
- and R. Jenness. 1988. Interspecies variation in milk composition among horses, zebras and asses (Perissiodactyla: Equidae). Journal of Dairy Research 55:57-66.
- , D.J. Boness and W.D. Bowen. 1988. The composition of hooded seal (Cystophora cristata) milk: an adaptation to postnatal fattening. Canadian Journal of Zoology 66:318-322.
- Ralls, K. and R.L. Brownell, Jr. 1988. Sperm competition in the grey whale. Nature 336:116-117.

- , 1989. A semi-captive breeding program for the baiji, Lipotes vexillifer: genetic and demographic considerations. In: Biology and conservation of the river dolphins, pps. 150-156. W.F. Perrin, R.L. Brownell, Jr., Zhou Kaiya and Liu Jainkang (eds.). IUCN Species Survival Commission Occasional Paper No. 3.
- , 1989. Review of "Sounds of silence" by G.B. Schaller. Animal Behaviour 37:1059.
- and R.L. Brownell, Jr. 1989. Protected species: research permits and the value of basic research. BioScience 39:394-396.
- Roberts, M. 1988. The great unwatched - urban wildlife in the zoo. ZooGoer 17:11-13.
- , K. Thompson and J. Cranford. 1988. Reproduction and growth in the punare (Thrichomys apereoides; Rodentia:Echimididae) of the Brazilian Caatinga with reference to the reproductive strategies of the Echimyidae. Journal of Mammalogy 69:542-552.
- , 1989. A survey and analysis of management practices in the North American red panda SSP. In: Red panda biology pps. 129-153. A. Glatston, ed. SPB Academic Publishing, The Hague.
- , 1989. The North American regional program. In: The red or lesser panda studbook, number 5, pps 23-25. The Royal Rotterdam Zoological and Botanical Gardens, Rotterdam.
- , L. Phillips and F. Kohn. 1989. The common ringtail possum (Pseudocheirus peregrinus) as a management model for the Pseudocheiridae: reproductive scope, behavior and biomedical values on a browse-free diet. Zoo Biology 8:1-20.
- Snyder, N.F.R., S.R. Beissinger and M.R. Fuller. 1989. Reproduction and demography of the Florida (Everglades) kite. Condor 91:300-316.
- , S.R. Beissinger and M. R. Fuller. 1989. Solar radio-transmitters on snail kites in Florida. Journal of Field Ornithology 60:171-177.
- Thompson, S.D. 1989. Thermoregulation in the water opossum (Chironectes minimus): an exception that proves a rule. Physiological Zoology 61:450-60.
- Warnell, K.J., S.D. Crissey and O.T. Oftedal. 1989. Utilization of bamboo and other fiber sources in red panda diets. In: Red panda biology, pps. 51-56. A.R. Glatston, ed. SPB Academic Publishing, The Hague.
- Wilson, N., J.M. Dietz and J.O. Whitaker, Jr. 1989. Ectoparasitic Acari Found on Golden Lion Tamarins (Leontopithecus rosalia rosalia) from Brazil. Journal of Wildlife Diseases 25:433-435.

OFFICE OF AMERICAN STUDIES

Washburn, Wilcomb E. "It's Not the Name 'Redskins' That Maligns Indians," Washington Post, April 23, 1988.

"The Possibilities of the Columbian Quincentennial," Ideas '92, 1 (2) (Spring 1988): 29-41 [Expanded version of Washington Post article cited in 1987 co-authored with Joan R. Challinor].

"The Academic Profession and Contemporary Politics," Minerva: A Review of Science, Learning and Policy, 26 (3) (Autumn 1988): 392-415.

"'Vexatious Oral Exchange': A Talk to the Dartmouth Class of 1948," Academic Questions, 2 (1), (Winter 1988-89) [Full text of article entitled "Liberalism versus Free Speech" in the National Review, September 30, 1988].

Introduction to Context section of L'Indianite: Contextes et Perspectives, Revue Francaise d'Etudes Americaines, (Presses Universitaires de Nancy, 13 (38) (November 1988): 319-322.

Handbook of North American Indians, Vol. 4, Indian-White Relations, (editor), (Washington: Smithsonian Institution, 1988): 838 pp.

"The First European Contacts with the American Indians," in Revista da Universidade de Coimbra, Vol. XXXIV (Lisboa: Instituto de Investigacao Cientifica Tropical, 1988), serie separatas 208: 439-446.

"Anthropological Advocacy in the Hopi-Navajo Land Dispute," American Anthropologist 91 (3) (September 1989): 738-743.

Keynote Address, Scholarship and Museums: Roles and Responsibilities, Proceedings of the Ninth Museum Studies Conference, University of Delaware, April 9, 1988, edited by Bryant F. Tolles, Jr. (Newark: University of Delaware, 1989): 7-17.

SMITHSONIAN ASTROPHYSICAL OBSERVATORY

- Aaronson, M.; Bothun, G.; Cornell, M.; Dawe, J.; Dickens, R.; Hall, P.; Sheng, H. M.; Huchra, J.; Lucey, J.; Mould, J.; Murray, J.; Schommer, R.; and Wright, A. E. "Large Peculiar Velocities in the Hydra-Centaurus Supercluster." Astrophysical Journal 338 (1989): 654.
- Adams, F.; Freese, K.; Levin, J.; and McDowell, J. C. "Spectral Distortions of the Cosmic Microwave Background." Astrophysical Journal 344 (1989): 24.
- Alpert, Y. L.; Fligel, D. S.; and Yaraslavtsev, A. A. "Spectra and Geomagnetic Pulsations of Complex Shape and Simulation of their Generation Process." Planetary and Space Science 37 (1989): 391.
- Andersen, J.; Lindgren, H.; Hazen, M. L.; and Mayor, M. "The Pre-Main-Sequence Binary System AK Scorpii." Astronomy and Astrophysics 219 (1989): 142.
- Anderson, J. D.; Borderies, N. J.; Campbell, J. K.; Dunne, J. A.; Ellis, J.; Hellings, R. W.; Lau, E. L.; Preston, R. A.; Traxler, M. R.; Williams, J. G.; Yoder, C. F.; Chandler, J. F.; Reasenberg, R. D.; Shapiro, I. I.; Berthias, J. P.; Blamont, J.; Linkin, V. M.; Kerzhanovich, V. V.; Akim, E. L.; and Ivanov, N. M. "Testing General Relativity with Landers on the Martian Satellite Phobos." Advances in Space Research 9(9) (1989): 71.
- Anglada, G.; Rodríguez, L. F.; Torrelles, J. M.; Estalella, R.; Ho, P. T. P.; Cantó, J.; López, R.; and Verdes-Montenegro, L. "Ammonia Observations of Outflow Regions." Astrophysical Journal 341 (1989): 208.
- Arnett, W. D.; Bahcall, J. N.; Kirshner, R. P.; and Woosley, S. E. "Supernova 1987A." Annual Review of Astronomy and Astrophysics 27 (1989): 629.
- Avrett, H. H., and Fontela, J. M. "Hydrogen Ionization and Energy Balance in the Solar Transition Region." In SMM Workshop on non-LTE Radiative Transfer and Energy Balance, ed. S. A. Drake, p. 2-11. Greenbelt, Maryland: Goddard Space Flight Center, 1988.
- Babb, J. F., and Spruch, L. "Retardation (Casimir) Effect for a Multielectron Core System and a Rydberg Electron." Physical Review A 40 (1989): 2917.
- Babcock, R. W.; Marshall, H. W.; Reasenberg, R. D.; and Reasenberg, S. "Full Aperture Metrology for High Precision Astrometry." In Topical Meeting on Space Optics for Astrophysics and Earth and Planetary Remote Sensing, 1988 Technical Digest Series, vol. 10, p. 22. Washington, D.C.: Optical Society of America, 1988.
- Bailyn, C. D.; Garcia, M. R.; and Grindlay, J. E. "Outflow from the Outer Lagrangian Point: Observations and Models of 4U 2127+12 in M15." Astrophysical Journal 344 (1989): 786.
- Baliunas, S. L. "Call for Participation in a Global Network of Automatic Telescopes." International Amateur Professional Photoelectric Photometry Communications 35 (1989): 12.
- . "World-Wide Network of Automatic Telescopes." In Automatic Small Telescopes, eds. R. Genet and D. S. Hayes, p. 125. Mesa, Arizona: Fairborn Press, 1989.

- . "A State of Astrophysics at Mount Wilson Observatory." In Report to Mount Wilson Institute Board of Directors. Pasadena, California: Mount Wilson Institute, 1989.
- . "Dedication of the 0.75 m APT: Brightness Variations and Magnetic Activity in Cool Stars." In Automatic Small Telescopes, eds. R. Genet and D. S. Hayes, p. 83. Mesa, Arizona: Fairborn Press, 1989.
- . "Starspot Cycles and Climatology." In Foundation for Study of Cycles, Proceedings of the 1989 Annual Conference, p. 45. Irvine, California: Foundation for the Study of Cycles, 1989.
- . "Long-Term Magnetic Activity Variations of Lower Main Sequence Stars." In Formation and Evolution of Low Mass Stars, Proceedings of NATO Advanced Study Institute, eds. A. K. Dupree and M. T. V. T. Lago, p. 319. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Baliunas, S. L.; Genet, R.; and Hayes, D., eds. Selected Papers on Global Network of Automatic Telescopes, Remote Access and Automatic Telescope Instruction Set. Mesa, Arizona: Fairborn Press, 1989.
- Baliunas, S. L.; Pyper-Smith, D.; and Genet, R. L. "Automatic Photoelectric Telescope Service Summer Workshop III." International Amateur Professional Photoelectric Photometry Communications 34 (1988): 37.
- Barnes, P. J.; Crutcher, R. M.; Biegging, J. H.; Storey, J. W. V.; and Willner, S. P. "Orion B (NGC 2024). I. VLA and IR Observations of the H II Region." Astrophysical Journal 342 (1989): 883.
- Bartel, N.; Rupen, M. R.; and Shapiro, I. I. "VLBI Observations of SN1986J: A Supernova with an Elongated Radio Brightness Distribution." Astrophysical Journal (Letters) 337 (1989): L85.
- Bates, D. R., and Victor, G. A. "Alexander Dalgarno: Life and Personality." Advances in Atomic and Molecular Physics 25 (1988): 1.
- Benson, P.J., and Myers, P.C. "A Survey for Dense Cores in Dark Clouds." Astrophysical Journal Supplement 71 (1989): 89.
- Bevilacqua, F.; Merlina, P.; Lorenzini, E. C.; Cosmo, M.; and Bergamaschi, S. "Tethered Gravity Laboratories Study: The Center-of-Gravity Management Concept." In Tethers in Space Toward Flight, p. 249. Washington, D.C.: American Institute of Aeronautics and Astronautics, Inc., 1989.
- Biretta, J.; Owen, F.; and Cornwell, T. "A Search for Motion and Flux Variations in the M87 Jet." Astrophysical Journal 342 (1989): 128.
- Blair, W. P.; Raymond, J. C.; Danziger, J.; and Matteucci, F. "The Ultraviolet Spectrum of an Oxygen-Rich Supernova Remnant in the Small Magellanic Cloud." Astrophysical Journal 338 (1989): 812.
- Bloemhof, E. E.; Danchi, W. C.; Townes, C. H.; and McLaren, R. A. "High Spatial Resolution 10 Micron Imaging of IRC+10216." Astrophysical Journal 333 (1988): 300.
- Bloemhof, E. E.; Reid, M. J.; and Moran, J. M. "Proper Motions of the OH Masers in W3(OH)." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 228. Berlin: Springer-Verlag Publishing Company, 1989.
- Bodo, G.; Kalkofen, W.; and Massaglia, S. "Methods for 2D Radiative Transfer in

- Magnetic Flux Tubes." In Supercomputing in Astrophysics, ed. F. Vagnetti, p. 56. Astronet Special Publication 88/1. Trieste, Italy: Osservatorio Astronomico di Trieste, 1988.
- Bodo, G.; Rosner, R.; Ferrari, A.; and Knoblock, E. "On the Stability of Magnetized Rotating Jets: The Axisymmetric Case." Astrophysical Journal 341 (1989): 631.
- Bopp, B.W.; Saar, S. H.; Ambruster, C.; Feldman, P.; Dempsey, R.; Allen, M.; and Barden, S. "The Active Chromosphere Binary HD 17433 (VY Ari)." Astrophysical Journal 339 (1989): 1059.
- Bregman, J., and David, L. P. "Alternative Models of Cooling Flows." Astrophysical Journal 341 (1989): 49.
- Brissenden, R.; Tuohy, I.; Bicknell, G.; Remillard, R.; and Schwartz, D. "A Multi-Wavelength Study of X-Ray Selected AGN." In Active Galactic Nuclei, Proceedings of IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 199. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Bronfman, L.; Nyman, L.; and Thaddeus, P. "The Largest Molecular Cloud Complexes in the Southern Milky Way." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 139. Berlin: Springer-Verlag Publishing Company, 1989.
- Bruning, D. H., and Saar, S. H. "Line Asymmetries in Late-Type Dwarf Protospheres." In The NATO Advanced Research Workshop on Solar and Stellar Granulation, eds. R. Rutten and G. Severino, p. 145. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Budd, W. F.; Andrews, J. T.; Finkel, R. C.; Fireman, E. L.; Graf, W.; Hammer, C. U.; Jouzel, J.; Raynaud, D. P.; Reeh, N.; Shoji, H.; Stauffer, .; and Weertman, J. "How Can an Ice Core Chronology be Established?" In The Environmental Record in Glaciers and Ice Sheets, eds. H. Oeschgers and C. C. Langway, Jr., p. 177. New York: Wiley-Interscience Publication, 1989.
- Caldwell, N., and Phillips, M. M. "Star Formation in NGC 5253." Astrophysical Journal 338 (1989): 789.
- Caldwell, N., and Schommer, R. A. "Cepheid Variables in the Phoenix Galaxy and IC 5152." In The Extragalactic Distance Scale, eds. S. van den Bergh and C. J. Pritchet, p. 77. Provo, Utah: Astronomical Society of the Pacific, 1988.
- Campbell, D. B.; Harmon, J. K.; and Shapiro, I. I. "Radar Observations of Comet Halley." Astrophysical Journal 338 (1989): 1071.
- Campbell, A., and Willner, S. P. "Shocked Molecular Hydrogen in NGC 4038/4039, 'the Antennae'." Astronomical Journal 97 (1989): 995.
- Carleton, N. P. "The Iota Project." In Proceedings of the NOAO-ESO Conference on High-Resolution Imaging by Interferometry, ESO Conference and Workshop Proceedings No. 29, ed. F. Merkle, p. 939. Garching bei Munchen, FRG: European Southern Observatory, 1989.
- Carney, B. W.; Latham, D. W.; Jones, R. V.; and Beck, J. A. "The Distances and Ages of Globular Clusters." In Calibration of Stellar Ages, ed. A. G. Davis Philip, p. 31. Schenectady, New York: L. Davis Press, 1988.
- Carney, B. W.; Latham, D. W.; Jones, R. B.; Beck, J. A.; and Laird, J. B. "Is There an Age Spread in the Galactic Halo?" In The Abundance Spread Within Globular Clusters: Spectroscopy of Individual Stars, eds. G. Cayrel de Strobel, M. Spite,

- and T. Lloyd Evans, p. 87. Paris: Observatoire de Paris, 1989.
- Carney, B. W.; Latham, D. W.; and Laird, J. B. "A Survey of Proper-Motion Stars. VIII. On the Galaxy's Third Population." Astronomical Journal 97 (1989): 423.
- Catura, R. C., and Golub, L. "XUV Multilayered Optics for Astrophysics." Revue de Physique Appliquée 23 (1988): 1741.
- Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lewis, D. A.; Macomb, D. J.; Porter, N. A.; Reynolds, P. T.; Vacanti, G.; and Weekes, T. C. "Observation of TeV Gamma-Rays from the Crab Nebula Using the Atmospheric Cherenkov Imaging Technique." Astrophysical Journal 342 (1989): 379.
- Cernicharo, J.; Gottlieb, C. A.; Guélin, M.; Thaddeus, P.; and Vrtílek, J. M. "Astronomical and Laboratory Detection of the SiC Radical." Astrophysical Journal (Letters) 341 (1989): L25.
- Chance, K. V.; Johnson, D. G.; and Traub, W. A. "Measurement of Stratospheric HOCl: Concentration Profiles, Including Diurnal Variation." Journal of Geophysical Research 94 (1989): 11059.
- Chandler, J. F.; Babcock, R. W.; and Reasenberg, R. D. "POINTS: A Stringent Test of General Relativity." In Topical Meeting on Space Optics for Astrophysics and Earth and Planetary Remote Sensing, 1988 Technical Digest Series, vol. 10, p. 19. Washington, D.C.: Optical Society of America, 1988.
- Cheung, A. S.-C.; Yoshino, K.; Freeman, D. E.; Friedman, R. S.; Dalgarno, A.; and Parkinson, W. H. "The Schumann-Runge Absorption Bands of $^{16}\text{O}^{18}\text{O}$ in the Wavelength Region 175-205 nm and Spectroscopic Constants of Isotopic Oxygen Molecules." Journal of Molecular Spectroscopy 134 (1989): 362.
- Cheung, A. S.-C.; Yoshino, K.; Freeman, D. E.; and Parkinson, W. H. "Wavelength Measurements and Analysis of the Schumann-Runge Bands of $^{18}\text{O}_2$ in the Region 175-205 nm." Journal of Molecular Spectroscopy 131 (1988): 96.
- Chlebowski, T. "X-Ray Emission from O-Type Stars: Parameters Which Affect It." Astrophysical Journal 342 (1988): 1091.
- Chlebowski, T.; Harnden, F. R., Jr.; and Sciortino, S. "The Einstein X-Ray Observatory Catalog of O-Type Stars." Astrophysical Journal 341 (1989): 427.
- Churchwell, E., and Wood, D. O. S. "The Population and Distribution of Massive Stars Embedded in Galactic Molecular Clouds." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 87. Berlin: Springer-Verlag Publishing Company, 1989.
- Coker, R.; Madore, B.; Mould, J.; Oke, J. B.; Picard, A.; Huchra, J.; and Latham, D. "The Radii of Long Period Cepheids." Publications of the Astronomical Society of the Pacific 101 (1989): 594.
- Collura, A.; Sciortino, S.; Serio, S.; Vaiana, G. S.; Harnden, F. R., Jr.; and Rosner, R. "Variability of X-Ray Emission from OB Stars." Astrophysical Journal 338 (1989): 296.
- Cooper, D. L., and Kirby, K. "Theoretical Study of the $(3s\sigma)^1\Pi$ Rydberg State of CO." Chemical Physics Letters 152 (1988): 393.
- Cornell, J. C. (editor). Bubbles, Voids, and Bumps in Time: The New Cosmology. Cambridge: Cambridge University Press, 1989.
- Coyle, L. M., and Mattison, E. M. "A Microcomputer-Based Adaptive Data Logging

- System." In Proceedings of the 35th International Instrumentation Symposium, p. 285. Research Triangle Park, North Carolina: Instrument Society of America, 1989.
- Cudworth, K., and Peterson, R. "Astrometric Distances of Globular Clusters." Publications of the Astronomical Society of the Pacific 100 (1989): 1219.
- Cutri, R. M.; Low, F. J.; Kleinmann, S. G.; Olszewski, E. W.; Willner, S. P.; Campbell, B.; and Gillett, F. C. "SSC 08546+1732: A Faint, Dust-Enshrouded Carbon Star at High Galactic Latitude." Astronomical Journal 97 (1989): 866.
- da Costa, L. N.; Pelligrini, P. S.; Willmer, C.; de Carvalho, R.; Maia, M.; Latham, D. W.; and Geary, J. G. "The ON-CfA Redshift Survey of the Southern Hemisphere." Astronomical Journal 97 (1989): 315.
- da Costa, L. N.; Pelligrini, P. S.; Willmer, C.; and Latham, D. W. "A First Glimpse of a Southern Redshift Slice." Astrophysical Journal 344 (1989): 20.
- Dame, T. M. "A Composite CO Survey of the Entire Milky Way." In Molecular Clouds in the Milky Way and External Galaxies, Lecture Notes in Physics No. 315, eds. R. Dickman, R. L. Snell, and J. S. Young, p. 309. Berlin: Springer-Verlag Publishing Company, 1988.
- . "A Complete CO Survey of the Large Magellanic Cloud." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 245. Berlin: Springer-Verlag Publishing Company, 1989.
- David, L. P., and Bregman, J. "The Effects of Magnetic Fields on the Growth of Thermal Instabilities in Cooling Flows." Astrophysical Journal 337 (1989): 97.
- de Lapparent, V.; Geller, M.; and Huchra, J. "The Luminosity Function for the CfA Redshift Survey Slices." Astrophysical Journal 343 (1989): 1.
- DiPippo, S.; Grossi, M. D.; and Lorenzini, E. C. "The Use of SPIDER in Conjunction with TSS." In Tethers in Space Toward Flight, p. 418. Washington, D.C.: American Institute of Aeronautics and Astronautics, Inc., 1989.
- Ebstein, S. M.; Carleton, N. P.; and Papaliolios, C. "Speckle Imaging of NGC 1068 and NGC 4151 in the [OIII] 5007 Å Line and Nearby Continuum." Astrophysical Journal 336 (1989): 103.
- Elgered, G.; Davis, J. L.; Herring, T. A.; and Shapiro, I. I. "The Effects of WVR Data from Onsala on the Repeatability of Baseline Length Determination." In Proceedings of the 6th Working Group Meeting on European VLBI for Geodesy and Astrometry, ed. P. Tomasi, p. 95. Bologna: Consiglio Nazionale delle Ricerche, Istituto di Radioastronomia, 1988.
- Elvis, M.; Lockman, F. J.; and Wilkes, B. J. "Accurate Galactic N_H Values Toward Quasars and AGN." Astronomical Journal 97 (1989): 77.
- Elvis, M.; McDowell, J.; and Wilkes, B. J. "The Infrared and X-Ray Continuum of Quasars: Is There a Connection?" In Active Galactic Nuclei, IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 184. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Escalante, V.; Rodríguez, L. F.; Moran, J. M.; and Cantó, J. "The Asymmetrical Profile of the H76a Line Emission from MWC349." Revista Mexicana de Astronomía y Astrofísica 17 (1989): 11.
- Esser, R., and Withbroe, G. L. "Line of Sight Effects on Spectroscopic Measurements

- in the Inner Solar Wind Region." Journal of Geophysical Research 94 (1989): 6886.
- Estes, R. D. "Ionospheric Wave Propagation From An Electrodynamic Tethered Satellite System." In Proceedings of the National Radio Science Meeting USNC/URSI, p. 81. Boulder, Colorado: URSI, 1989.
- . "Calculating the Electromagnetic Field on the Earth due to an Electrodynamic Tethered System in the Ionosphere." In Tethers in Space Toward Flight, p. 41. Washington, D.C.: American Institute of Aeronautics and Astronautics, Inc., 1989.
- Fabbiano, G. "Low-Activity Nuclei in Spiral Galaxies." In Active Galactic Nuclei, Proceedings of IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 517. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "X-Rays from Normal Galaxies." Annual Review of Astronomy and Astrophysics 27 (1989): 87.
- Fabricant, D. "The Decaspec: A Fiber Optic Manipulator for Multi-Object Spectroscopy." In Fiber Optics in Astronomy, Astronomical Society of the Pacific Conference Series, ed. S. C. Barden, vol. 3, p. 170. San Francisco: Astronomical Society of the Pacific, 1988.
- Fabricant, D.; Kent, S. M., and Kurtz, M. J. "A Combined Optical/X-Ray Study of the Galaxy Cluster Abell 2256." Astrophysical Journal 336 (1989): 77.
- Fegan, D. J.; Cawley, M. F.; Gibbs, K.; Lamb, R. C.; Lewis, D. A.; Porter, N. A.; Reynolds, P. T.; Smyth, G.; and Weekes, T. C. "Search for a 12.59 ms Pulsar in Cygnus X-3." Astronomy and Astrophysics 211 (1989): L1.
- Feller, W. B.; Cook, L. M.; Fraser, G. W.; Pearson, J. F.; Murray, S. S.; and Garcia, M. R. "Low Noise Microchannel Plates." In Image Intensification, Proceedings of SPIE, vol. 1072, ed. I. P. Csorba, p. 138. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Field, G. B. "Recent Developments in Cosmology." In Niels Bohr: Physics and the World, Proceedings of the Niels Bohr Centennial Symposium (American Academy of Arts and Sciences), eds. H. Feshback, T. Matsui, and A. Oleson, p. 157. New York: Harwood Academic Publishers, 1988.
- Field, G. B., and Walker, T. P. "Radiative Decays of Massive Relic Particles and the Submillimeter Background." Physical Review Letters 63 (1989): 117.
- Fireman, E. L. "Uranium Series Dating of Tephra-Banded Allan Hills Ice." In Proceedings of the 13th Symposium on Antarctic Meteorites, ed. K. Yanai, p. 1. Tokyo: National Institute of Polar Research, 1988.
- . "Ice Chronology at Meteorite Stranding Sites, Antarctica." Antarctic Journal of the United States Annual Review Issue (1988): 75.
- Fireman, E. L., and Beukens, R. P. "Carbon-14 Production by 155 Mev Protons in Meteorites." In Lunar and Planetary Science Conference XX, p. 291. Houston, Texas: Lunar and Planetary Science Institute, 1989.
- Fleming, T. A.; Gioia, I. M.; and Maccacaro, T. "The Relation between X-Ray Emission and Rotation in Late-Type Stars from the Perspective of X-Ray Selection." Astrophysical Journal 340 (1989): 1011.
- . "X-Ray Selected Candidates for the RS CVn and W UMa Classes of Binary Stars." Astronomical Journal 98 (1989): 692.

- Franklin, F. A.; Lecar, M.; and Soper, P. "Note on the Original Distribution of the Asteroids." Icarus 79 (1989): 223.
- Garay, G.; Moran, J. M.; and Haschick, A. D. "The Orion-KL Super Water Maser." Astrophysical Journal 338 (1989): 244.
- Garcia, M. R.; Baily, C. D.; Grindlay, J. E.; and Molnar, L. A. "Is 4U2129+47 (= V1727 Cygnus) a Triple System?" Astrophysical Journal (Letters) 341 (1989): L75.
- Garcia, M. R.; Chappell, J. H.; Murray, S. S.; Feller, W. B.; and Fraser, G. W. "Low Noise Microchannel Plate Detectors for X-Ray Astronomy." In X-Ray Instrumentation in Medicine and Biology, Plasma Physics, Astrophysics, and Synchrotron Radiation, Proceedings of SPIE, vol. 1140, ed. R. Denattar, p. 101. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Gardner, L. D.; Kohl, J. L.; Savin, D. W.; and Young, A. R. "Experiment on Electron Impact Excitation and Dielectronic Recombination at Harvard-Smithsonian." Journal de Physique 50 (1989): C1-405.
- Gavazzi, G., and Trinchieri, G. "Near-Infrared Observations of Galaxies in the Coma Supercluster." Astrophysical Journal 342 (1989): 718.
- Geller, M. "Mapping the Universe: Redshifts and Standard Candles." In Bubbles, Voids, and Bumps in Time: The New Cosmology, ed. J. Cornell, p. 50. Cambridge: Cambridge University Press, 1989.
- Geller, M. J., and Huchra, J. P. "Galaxy and Cluster Redshift Surveys." In Large Scale Motions in the Universe, eds. V. Rubin and G. Coyne, p. 3. Princeton: Princeton University, 1989.
- Gingerich, O. "Sacrobosco as a Textbook." Journal for the History of Astronomy 19 (1988): 269.
- . "Introduction to John Bevis." In Atlas Celeste. Norfolk, England: Archival Facsimiles, Ltd., 1987.
- . "J. L. E. Dreyer and His NGC." Sky and Telescope 76 (1988): 621.
- . "A Scholarly Partnership with the Book Trade." AB Bookman's Weekly 82 (1988): 2447.
- . "Reflections on the Role of Archaeoastronomy in the History of Astronomy." In World Archaeoastronomy, Proceedings of Second Oxford Conference on Archaeoastronomy, ed. A. F. Aveni, p. 38. Cambridge: Cambridge University Press, 1989.
- Gioia, I. M.; Maccacaro, T.; Morris, S. L.; Schild, R. E.; Stocke, J. T.; and Wolter, A. "X-Ray Selected AGN from the Extended Medium Sensitivity Survey." In Active Galactic Nuclei, Proceedings of IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 203. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Golub, L., and Herant, M. "Analysis of the 23 June 1988 Flare Using Normal Incidence X-Ray Telescope Multilayer X-Ray Images." In X-Ray/EUV Optics for Astronomy and Microscopy, Proceedings of SPIE, vol. 1160, ed. R. B. Hoover, p. 629. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Goodman, A. A.; Crutcher, R. M.; Heiles, C.; Myers, P. C.; and Troland, T. H.

- "Measurement of Magnetic Field Strength in the Dark Cloud Barnard 1." Astrophysical Journal (Letters) 338 (1989): L61.
- Goodman, A. A., and Myers, P. C. "Magnetic and Virial Equilibrium in Molecular Clouds." In Molecular Clouds in the Milky Way and External Galaxies, Lecture Notes in Physics No. 315, eds. R. Dickman, R. L. Snell, and J. S. Young, p. 128. Berlin: Springer-Verlag Publishing Company, 1989.
- Goodman, A. A.; Myers, P. C.; Crutcher, R. M.; Heiles, C.; Kazès, I.; and Troland, T. H. "Measurement of the Magnetic Field in the Molecular Cloud B1." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 182. Berlin: Springer-Verlag Publishing Company, 1989.
- Gorenstein, M. V.; Cohen, N. L.; Shapiro, I. I.; Rogers, A. E. E.; Bonometti, R. J.; Falco, E. E.; Bartel, N.; and Marcaide, J. M. "VLBI Observations of the Gravitational Lens System 0957+561: Structure and Relative Magnification of the A and B Images." Astrophysical Journal 334 (1988): 42.
- Gottlieb, C. A.; Vrtilek, J. M.; and Thaddeus, P. "Laboratory Measurement of the Rotational Spectrum of SiCC." Astrophysical Journal (Letters) 343 (1989): L29.
- Graessle, D. E.; Prager, S. C.; and Dexter, R. N. "Tokamak Magnetic Turbulence Over the Safety-Factor Range $0.6 < q < 3$." Physical Review Letters 62 (1989): 535.
- Green, D. W. E. (editor). International Comet Quarterly 10 (1988).
- . (editor). International Comet Quarterly 11 (1989).
- Grindlay, J.; Baily, C.; Mathieu, R. D.; and Latham, D. W. "Radial Velocity Study of NGC 6712." In Globular Cluster Systems in Galaxies, Proceedings of IAU Symposium No. 126, eds. J. E. Grindlay and A. G. D. Philip, p. 659. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Grossi, M. D. "Computer-Aided Data Acquisition System for Experiments on the Detectability of Weakly-Interacting Particles." In Proceedings of the National Radio Science Meeting USNC/URSI, p. 99. Boulder, Colorado: URSI, 1989.
- . "Spaceborne Tethers as High-Power Orbiting Radiators of E.M. Waves from ULF to VLF." In Proceedings of the National Radio Science Meeting USNC/URSI, p. 82. Boulder, Colorado: URSI, 1989.
- . "A New Class of Large-Size, Spaceborne Antennas Based on Tether Technology." In NSF Workshop on Future Directions in Electromagnetic Research, Progress In Electromagnetic Research Symposium (PIERS), p. 330. Cambridge, Massachusetts: PIERS Office, Massachusetts Institute of Technology, 1989.
- Grossi, M. D., and Lorenzini, E. C. "One-Dimensional Tethers and Two-Dimensional Tethered Structures as Spaceborne Antennas for Radio Communications in the Bands ULF-to-VLF." In Proceedings of the 27th Aerospace Sciences Meeting, paper AIAA 89-0676. Washington, D.C.: American Institute of Aeronautics and Astronautics, Inc., 1989.
- Gullahorn, G. E. "Spatial Density Variations in the Lower Thermosphere from Tethered Satellite Drag." EOS, Transactions, American Geophysical Union 69 (1988): 1345.
- . "Atmospheric Density Variations via Tethered Satellite Drag." In Tethers in Space Toward Flight, p. 130. Washington, DC: American Institute of Aeronautics and Astronautics, Inc., 1989.

- Guth, A. H. "Starting the Universe: The Big Bang and Cosmic Inflation." In Bubbles, Voids, and Bumps in Time: The New Cosmology, ed. J. Cornell, p. 105. Cambridge: Cambridge University Press, 1989. Also published as "The Birth of the Cosmos." In Origins and Extinctions, eds. D. E. Osterbrock and P. H. Raven, p. 1. New Haven: Yale University Press, 1988.
- Guth, A. H., and Steinhardt, P. J. "The Inflationary Universe." In The New Physics, ed. P. Davies, p. 34. Cambridge: Cambridge University Press, 1989.
- Gwinn, C. R.; Cordes, J. M.; Bartel, N.; Wolszczan, A.; and Mutel, R. L. "VLBI Observations of a Pulsar's Scattering Disk." Astrophysical Journal (Letters) 334 (1988): L13.
- . "VLBI Observations of the Scattering Disk of Pulsar 1933+16." In Radio Wave Scattering in the Interstellar Medium, eds. J. M. Cordes, B. J. Rickett, and D. C. Backer, p. 129. New York: American Institute of Physics, 1988.
- Gwinn, C. R.; Moran, J. M.; and Reid, M. J. "Interstellar Scattering of Radiation from H₂O Masers in W49 and Sgr B2." In Radio Wave Scattering in the Interstellar Medium, eds. J. M. Cordes, B. J. Rickett, and D. C. Backer, p. 106. New York: American Institute of Physics, 1988.
- Gwinn, C. R.; Moran, J. M.; Reid, M. J.; Schneps, M. H.; Genzel, R.; and Downes, D. "Proper Motions of H₂O Masers in W49(N) and the Distance to the Galactic Center." In The Center of the Galaxy, Proceedings of IAU Symposium No. 136, ed. M. Morris, p. 47. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Habbal, S. R.; Ellman, N. E.; and Gonzalez, R. "Synthesis Mapping of a Solar Type I Storm Simultaneously at 90 and 20 Centimeters with the VLA." Astrophysical Journal 342 (1989): 594.
- Harmon, J. K.; Campbell, D. B.; Hine, A. A.; Shapiro, I. I.; and Marsden, B. G. "Radar Observations of Comet IRAS-Araki-Alcock (1983d)." Astrophysical Journal 338 (1989): 1071.
- Harnden, F. R., Jr., and Seward, F. D. "The X-Ray Environment of the Precursor of SN1987A." In Supernova 1987A in the Large Magellanic Cloud, Proceedings of the Fourth George Mason Astrophysics Workshop, eds. M. Kafatos and A. G. Michalitsianos, p. 408. Cambridge: Cambridge University Press, 1988.
- Harris, D. E. "Bremsstrahlung from Radio Source Electrons." In Proceedings of the Gamma Ray Observatory Science Workshop, ed. W. Neil Johnson, p. 4. Greenbelt, Maryland: Goddard Space Flight Center, 1989.
- Hartigan, P. "The Visibility of the Mach Disk and the Bow Shock of a Stellar Jet." Astrophysical Journal 339 (1989): 987.
- Hartmann, L., and Kenyon, S. J. "Accretion Disks Around Young Stars." In Formation and Evolution of Low-Mass Stars, eds. A. K. Dupree and M. T. V. T. Lago, p. 163. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Hartmann, L.; Kenyon, S. J.; Hewett, R.; Edwards, S.; Strom, K. M.; Strom, S. E.; and Stauffer, J. R. "Pre-Main Sequence Disk Accretion in Z Canis Majoris." Astrophysical Journal 338 (1989): 1001.
- Hartmann, L., and Raymond, J. C. "Wind-Disk Shocks Around T Tauri Stars." Astrophysical Journal 337 (1989): 903.
- Hartmann, L., and Stauffer, J. R. "Additional Measurements of Pre-Main Sequence

- Rotation." Astronomical Journal 97 (1989): 873.
- Ho, P. T. P.; Turner, J. L.; Fazio, G. G.; and Willner, S. P. "Excess 10- μ m Emission in Extragalactic Nuclei." Astrophysical Journal 344 (1989): 135.
- Huchra, J. P. "On Infall Into the Virgo Cluster." In The Extragalactic Distance Scale, eds. S. van den Bergh and C. J. Pritchet, p. 257. Provo, Utah: Astronomical Society of the Pacific, 1989.
- . "Redshift Surveys and the Description of Clustering in the Universe." In Large Scale Structure and Its Relation to Clusters of Galaxies, ed. J. Dickey, p. 41. Provo, Utah: Astronomical Society of the Pacific, 1989.
- Hughes, J. P. "The Mass of the Coma Cluster: Combined X-Ray and Optical Results." Astrophysical Journal 337 (1988): 21.
- Hughes, J. P.; Schwartz, D. A.; Worrall, D. M.; and Zombeck, M. V. "Derivation of Requirements for Calibrating the Advanced X-Ray Astrophysics Facility (AXAF) Telescope." In X-Ray Instrumentation in Astronomy II, Proceedings of SPIE, vol. 982, ed. L. Golub, p. 380. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1988.
- Ito, K.; Ueda, K.; Namioka, T.; Yoshino, K.; and Morioka, Y. "High-Resolution Absorption Spectrum of Ne I in the Region of 565-595 Å." Journal of the Optical Society of America B 5 (1988): 2006.
- Jaye, D.; Tresch-Fienberg, R.; Fazio, G. G.; Gezari, D. Y.; Hoffmann, W. F.; Lamb, G. M.; Shu, P. K.; and McCreight, C. R. "Images of the 10-Micron Source in the Cygnus Egg." Astronomical Journal 97 (1989): 809.
- Jones, R. V.; Carney, B. W.; and Latham, D. W. "The Baade-Wesselink Method and the Distances to RR Lyrae Stars. VI. The Field Stars RS Bootis, TW Herculis, VY Serpentis, and UU Virginis, and the Absolute Magnitudes of RR Lyrae Stars." Astrophysical Journal 332 (1988): 206.
- Kalkofen, W.; Bodo, G.; Massaglia, S.; and Rossi, P. "2D Flux Tube in Radiative Equilibrium." In Solar and Stellar Granulation, eds. R. J. Rutten and G. Severino, p. 571. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Kallman, T.; Krolik, J.; and Wilkes, B. "Quasar Emission Line Profile Modelling." In Active Galactic Nuclei, Proceedings of IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 131. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Karovska, M.; Koechlin, L.; Nisenson, P.; Papaliolios, C.; and Standley, C. "Evidence for Asymmetries in SN 1987A." In Highlights in Astronomy, ed. W. Liller, vol. 8, p. 352. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "Measurements of the Diameter of the LMC Supernova SN1987A." Astrophysical Journal 340 (1989): 435.
- Kent, S. M., and Falco, E. E. "A Model for the Gravitational Lens System 2237+0305." Astrophysical Journal 96 (1988): 1570.
- Kenyon, S. J. "The Cool Components of Symbiotic Stars II. Infrared Photometry." Astronomical Journal 96 (1989): 337.
- Kenyon, S. J., and Garcia, M. R. "Spectroscopic Orbits II. TX Cvn." Astronomical Journal 97 (1989): 194.
- Kenyon, S. J., and Hartmann, L. "High Resolution Infrared Spectra of FU Orionis Variables: Keplerian Rotation and Mass Loss." Astrophysical Journal 342 (1989):

- Kenyon, S. J.; Hartmann, L.; Imhoff, C. L.; and Cassatella, A. "Ultraviolet Spectroscopy of Pre-Main Sequence Accretion Disks." Astrophysical Journal 344 (1989): 925.
- Kim, D.-W.; Gahathakurta, P.; van Gorkom, J. H.; Jura, M.; and Knapp, G. R. "HI Observations of the Elliptical Galaxies NGC 2974 and NGC 5018." Astrophysical Journal 330 (1988): 684.
- Kirby, K., and Cooper, D. L. "Theoretical Study of Low-Lying $^1\Sigma^+$ and $^1\Pi$ States of CO. II. Transition Dipole Moments, Oscillator Strengths and Radiative Lifetime." Journal of Chemical Physics 90 (1989): 4895.
- Kirby, K., and van Dishoeck, E. F. "Photodissociation Processes in Diatomic Molecules of Astrophysical Interest." Advances in Atomic and Molecular Physics 25 (1988): 437.
- Knapp, G. R.; Sutin, B. M.; Phillips, T. G.; Ellison, B. N.; Keene, J. B.; Leighton, R. B.; Masson, C. R.; Steiger, W.; Veidt, B.; and Young, K. "CO Emission from Evolved Stars and Protoplanetary Nebulae." Astrophysical Journal 336 (1989): 822.
- Koch, D. G.; Melnick, G. J.; Fazio, G. G.; Rieke, G. H.; Low, F. J.; Hoffmann, W.; Young, E. T.; Urban, E. W.; Simpson, J. P.; Witteborn, F. C.; Gautier, T. N., III; and Poteet, W. "Overview of Measurements from the Infrared Telescope on Spacelab-2." Astrophysical Letters and Communications 27 (1988): 211.
- Kohl, J. L.; Noci, G.; Hartmann, L. W.; Raymond, J. C.; van Ballegooijen, A. A.; Weiser, H.; Withbroe, G. L.; Antonnuci, E.; Geiss, J.; Gloeckler, G.; Hollweg, J. V.; Huber, M. C. E.; Livi, S.; Rosner, R.; and Tondello, G. "UVCS" – An Ultraviolet Coronagraph Spectrometer for SOHO." In The SOHO Mission – Scientific and Technical Aspects of the Instruments, European Space Agency Special Publication 1104. Paris: European Space Agency, 1989.
- Kozai, Y.; Marsden, B. G.; Roemer, E.; Arlot, Y.; and Millis, R. "IAU Commission 20." In Reports on Astronomy, vol. XXA, ed. J.-P. Swings, p. 195. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Krolik, J. H., and Raymond, J. C. "Measuring H_0 and q_0 with X-Ray Lines from Galaxy Clusters." Astrophysical Journal (Letters) 335 (1989): L39.
- Kwok, P. W.; Cawley, M. F.; Fegan, D. J.; Gibbs, K. G.; Hillas, A. M.; Lamb, R. C.; Lewis, D. A.; Macomb, D.; Porter, N. A.; Reynolds, P. T.; Vacanti, G.; and Weekes, T. C. "Observation of TeV Gamma-Rays from the Crab Nebula." In Cosmic Gamma Rays, Neutrinos and Related Astrophysics, Proceedings of the NATO Advanced Study Institute, eds. M. M. Shapiro and J. P. Wefel, vol. 270, p. 245. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "Observation of TeV Gamma Rays from the Crab Nebula and PSR0531." In Timing Neutron Stars, Proceedings of the NATO Advanced Study Institute, eds. H. Ogelman and E. P. J. van der Heuvel, vol. 262, p. 375. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Lacasse, M. G., and Traub, W. A. "Glass Compensation for an Air Filled Delay Line." In Proceedings of the NOAO-ESO Conference on High-Resolution Imaging by Interferometry, ESO Conference and Workshop Proceedings No. 29, ed. F. Merkle, p. 959. Garching bei Munchen, FRG: European Southern Observatory,

1989.

- Lacey, C. G. "Gravitational Instability in a Primordial Collapsing Gas Cloud." Astrophysical Journal 336 (1989): 612.
- Laird, J. B.; Rupen, M. P.; Carney, B. W.; and Latham, D. W. "The Halo Metallicity Distribution Function." In The Abundance Spread Within Globular Clusters: Spectroscopy of Individual Stars, eds. G. Cayrel de Strobel, M. Spite, and T. Lloyd Evans, p. 37. Paris: Observatoire de Paris, 1989.
- . "A Survey of Proper-Motion Stars. VII. The Halo Metallicity Distribution Function." Astronomical Journal 96 (1988): 1908.
- Latham, D. W.; Mazeh, T.; Carney, B. W.; McCrosky, R. E.; Stefanik, R. P.; and Davis, R. J. "New Orbital Solutions for Spectroscopic Binaries in the Halo and the Prospects for a New Determination of the Age of the Galaxy." In Calibration of Stellar Ages, ed. A. G. Davis Philip, p. 185. Schenectady, New York: L. Davis Press, 1988.
- Latham, D. W.; Mazeh, T.; Stefanik, R. P.; Mayor, M.; and Burki, G. "The Unseen Companion of HD114762: A Probable Brown Dwarf." Nature 339 (1989): 38.
- Laughlin, C., and Victor, G. A. "Model-Potential Methods." Advances in Atomic and Molecular Physics 25 (1988): 163.
- Lazaref, B.; Castets, A.; Kim, D.-W.; and Jura, M. "Discovery of CO Emission from NGC 1275." Astrophysical Journal (Letters) 336 (1989): L13.
- Lee, C. W.; Mathieu, R. D.; and Latham, D. W. "Two Spectroscopic Binaries in the Open Cluster M11 and Their Implication for the Cluster Distance Modulus." Astronomical Journal 97 (1989): 1710.
- Lepp, S., and Dalgarno, A. "Heating of Interstellar Gas by Large Molecules or Small Grains." Astrophysical Journal 335 (1988): 769.
- Lightman, A. P. "Discovering the Universe: An Introduction." In Bubbles, Voids, and Bumps in Time: The New Cosmology, ed. J. Cornell, p. 1. Cambridge: Cambridge University Press, 1989.
- Lightman, A. P., and Press, W. H. "Surfaces of Constant Redshift in an Inflationary Universe." Astrophysical Journal 337 (1989): 598.
- Leisawitz, D.; Thaddeus, P.; and Bash, F. "A CO Survey of Regions around 34 Open Clusters." Astrophysical Journal Supplement 342 (1989): 1214.
- Lindstrom, M. M.; Marvin, U. B.; Holmberg, B. B.; and Mittlefehldt, D. W. "Geochemistry and Petrology of Recrystallized Gabbroic Breccias from the Apollo 15 Site." In Lunar and Planetary Science XX, p. 576. Houston, Texas: Lunar and Planetary Institute, 1989.
- Lindstrom, M. M.; Marvin, U. B.; and Mittlefehldt, D. W. "Apollo 15 Mg- and Fe-Norites: A Redefinition of the Mg-Suite Differentiation Trend." In Proceedings of the 19th Lunar and Planetary Science Conference, p. 245. Houston, Texas: Lunar and Planetary Institute, 1989.
- Lorenzini, E. C. "Novel Tether-Connected Two-Dimensional Structures for Low Earth Orbits." Journal of the Astronautical Sciences 36(4) (1988): 389.
- Lorenzini, E. C.; Cosmo, M.; Vetrella, S.; and Moccia, A. "Dynamics and Control of the Tether Elevator/Crawler System." Journal of Guidance, Control, and Dynamics 12(3) (1989): 404.
- Lorenzini, E. C.; Grossi, M. D.; and Cosmo, M. "Low Altitude Tethered Mars Probe."

- In Proceedings of the 39th Congress of the International Astronautical Federation, paper IAF-88-400. Washington, DC: American Institute of Aeronautics and Astronautics, Inc., 1988.
- Low, F.; Cutri, R.; Kleinmann, S.; and Huchra, J. "The Properties of Infrared Color Selected Quasars." Astrophysical Journal (Letters) 340 (1989): L1.
- Maccacaro, T.; Gioia, I. M.; Morris, S. L.; Schild, R. E.; Stocke, J. T.; and Wolter, A. "BL Lac Objects from the Einstein Extended Medium Sensitivity Survey: Their Surface Density." In Proceedings of the Meeting on BL Lac Objects: 10 Years After, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 222. Berlin: Springer-Verlag Publishing Company, 1989.
- Maccagni, D.; Garilli, B.; Gioia, I. M.; Maccacaro, T.; Vettolani, G.; and Wolter, A. "A Red Envelope around a Dominant Elliptical Galaxy in an X-Ray Selected Poor Cluster." Astrophysical Journal (Letters) 334 (1989): L1.
- Magri, C.; Haynes, M. P.; Forman, W.; Jones, C.; and Giovanelli, R. "The Pattern of Gas Deficiency in Cluster Spirals: The Correlation of H I and X-Ray Properties." Astrophysical Journal 333 (1988): 136.
- Maia, M. A. G.; da Costa, L. N.; and Latham, D. W. "A Catalog of Southern Groups of Galaxies." Astronomical Journal Supplement 69 (1989): 809.
- Maraschi, L.; Maccacaro, T.; and Ulrich, M.-H. (editors). Proceedings of the Meeting on BL Lac Objects: 10 Years After. Berlin: Springer-Verlag Publishing Company, 1989.
- Marsden, B. G. "What Amateurs Should Be Doing." Sky and Telescope 76 (1988): 462.
- . "Amateur Astronomers and the IAU Central Bureau for Astronomical Telegrams and Minor Planet Center." In Stargazers, Proceedings of IAU Colloquium No. 98, eds. S. Dunlop and M. Gerbaldi, p. 64. New York: Springer-Verlag Publishing Company, 1988.
- . "Observations - Concluding Remarks." In Stargazers, Proceedings of IAU Colloquium No. 98, eds. S. Dunlop and M. Gerbaldi, p. 225. New York: Springer-Verlag Publishing Company, 1988.
- . (editor). Minor Planet Circulars Nos. 13635-14072, 1988.
- . (editor). Minor Planet Circulars Nos. 14073-15120, 1989.
- Marsden, B. G., and Green, D. W. E. (editors). International Astronomical Union Circulars Nos. 4658-4696, 1988.
- . (editors). International Astronomical Union Circulars Nos. 4697-4868, 1989.
- Martens, P. C. H., and Kuin, N. P. M. "A Circuit Model for Filament Observations and Two-Ribbon Flares." Solar Physics 122 (1989): 136.
- Martens, P. C. H., and Young, A. "Proton Acceleration in Solar Flares and in the Geomagnetic Tail: A Comparison." In Nonlinear Effects in Vlasov Plasmas, ed. F. Doveil, p. 381. Les Ulis Cedex, France: Editions de Physique, 1989.
- Marvin, U. B. "Impact, and Its Implications for Geology" (abstract). Conference on Global Catastrophes, Volcanism, and Mass Mortality, LPI Contributions, vol. 673, p. 115. Houston, Texas: Lunar and Planetary Institute, 1988.
- . "Meteorite Distributions at the Allan Hills Main Icefield and the Pairing Problem." In Smithsonian Contributions to the Earth Sciences, eds. U. B. Marvin and G. J. MacPherson, vol. 28, p. 113. Washington, D.C.: Smithsonian

Institution Press, 1989.

- . "Meteorite Impact and Its Consequences for Geology." (abstract). In Proceedings of 28th International Geological Congress, vol. 2, p. 381. Washington, D.C.: International Geological Congress, 1989.
- Marvin, U. B.; Carey, J. W.; and Lindstrom, M. M. "Cordierite-Spinel Troctolite, a New Mg-Rich Lithology from the Lunar Highlands." Science 243 (1989): 925.
- Marvin, U. B.; Kring, D. A.; and Boulger, J. D., Jr. "Petrography of Impactite from New Quebec Crater." Meteoritics 23 (1989): 287.
- Marvin, U. B., and MacPherson, G. J. (editors). Field and Laboratory Investigations of Meteorites from Victoria Land and the Thiel Mountains Region, Antarctica. Smithsonian Contributions to the Earth Sciences, vol. 28. Washington, D.C.: Smithsonian Press, 1989.
- Massaglia, S.; Bodo, G.; Kalkofen, W.; and Rosner, R. "The Equilibrium Structure of a Thin Magnetic Flux Tube. III. The Effect of Molecular CO Absorption." Astrophysical Journal 333 (1988): 925.
- Masson, C. R. "The Structures of NGC 7027 and a Determination of its Distance by Measurement of Proper Motions." Astrophysical Journal 336 (1989): 294.
- . "The Structures of and Distances to BD+30°3639 and NGC 6572." Astrophysical Journal 336 (1989): 294.
- Mathieu, R. D.; Walter, F. M.; and Myers, P. C. "The Discovery of Six Pre-Main-Sequence Spectroscopic Binaries." Astronomical Journal 98 (1989): 987.
- Mattison, E. M. "Ultra-Stable Clocks for Use in Space." Advances in Space Research 9(9) (1989): 13.
- Mattison, E. M., and Coyle, L. M. "Phase Noise in Direct Digital Synthesizers." In Proceedings of the 42nd Annual Symposium on Frequency Control, IEEE Catalogue No. 88CH2588-2, p. 352. New York: Institute of Electrical and Electronics Engineers, 1988.
- Mattison, E. M., and Vessot, R. F. C. "Time and Temperature Stability of Silver-Coated Ceramics for Hydrogen Maser Resonant Cavities." In Proceedings of the 20th Annual Precise Time and Time Interval Applications and Planning Meeting, p. 313. Washington, D.C.: U.S. Naval Observatory, 1988.
- Mauche, C., and Gorenstein, P. "X-Ray Halos around Supernova Remnants." Astrophysical Journal 336 (1989): 843.
- Mauche, C. W.; Raymond, J. C.; and Cordova, F. A. "Interstellar Absorption Lines in High Resolution IUE Spectra of Cataclysmic Variables." Astrophysical Journal 335 (1989): 829.
- McClintock, J. E. "Transient X-Ray Sources with Late-Type Companions." In Timing Neutron Stars, eds. H. Ogelman and E. P. J. van den Heuvel, p. 209. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- McIntosh, G. C.; Predmore, C. R.; Moran, J. M.; Greenhill, L. J.; Rogers, A. E. E.; and Barvainis, R. "VLBI and Polarimetric Observations of the SiO Masers in R Cassiopeia." Astrophysical Journal 337 (1989): 934.
- Melnick, G. J. "Observations of Atomic Species in Dense Clouds." In Molecular Astrophysics, ed. T. W. Hartquist, p. 273. Cambridge: Cambridge University Press, 1989.
- Melnick, G. J.; Koch, D. G.; Fazio, G. G.; Rieke, G. H.; Low, F. J.; Hoffmann, W.;

- Young, E. T.; Urban, E. W.; Simpson, J. P.; Witteborn, F. C.; Gautier, T. N., III; and Poteet, W. "Overview of Measurements from the Infrared Telescope on Spacelab-2." Astrophysical Letters and Communications 27 (no. 3) (1988): 211.
- Menten, K. M., and Batrla, W. "Observations of Various Methanol Maser Transitions towards the NGC6334 Region." Astrophysical Journal 341 (1989): 839.
- Menten, K. M., and Melnick, G. J. "Hot Water Around Late-Type Stars: Detection of Two MM-Wave Lines from the ν_2 Vibrationally Excited State." Astrophysical Journal (Letters) 341 (1989): L91.
- Menten, K. M.; Reid, M. J.; Moran, J. M.; Wilson, T. L.; Johnston, K. J.; and Batrla, W. "VLBI Observations of 12 Gigahertz Methanol Masers." Astrophysical Journal (Letters) 333 (1988): L83.
- Menten, K. M.; Walmsley, C. M.; Wilson, T. L.; and Henkel, C. "Interstellar Methanol towards Galactic HII Regions." In Molecular Clouds in the Milky Way and External Galaxies, Lecture Notes in Physics No. 315, eds. R. Dickman, R. L. Snell, and J. S. Young, p. 261. Berlin: Springer-Verlag Publishing Company, 1989.
- Michel, A., and Huchra, J. "Redshifts of Galaxies in the Winter Plane." Publications of the Astronomical Society of the Pacific 100 (1988): 1423.
- Moran, J. M. "Imaging with Very Long Baseline Interferometry." In Highlights of Astronomy, Proceedings of the IAU 20th General Assembly, ed. D. McNally, p. 553. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "Introduction to VLBI" In Techniques and Applications of Very Long Baseline Interferometry, eds. M. Felli and R. E. Spencer, p. 27. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "The Effects of Propagation on VLBI Observations." In Techniques and Applications of Very Long Baseline Interferometry, eds. M. Felli and R. E. Spencer, p. 47. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "Water Vapor Masers and the Cosmic Distance Scale." In Newsletter of the Astronomical Society of New York, Vol. III, No. 6, ed. A. G. Davis Philip, p. 9. Schnectady, New York: L. Davis Press, Inc., 1989.
- . "Masers in the Envelopes of Young and Old Stars." In Molecular Astrophysics, ed. T. Hartquist, p. 397. Cambridge: Cambridge University Press, 1989.
- Moran, J. M.; Hewitt, J. N.; and Lo, K. Y. (editors). Gravitational Lenses. Berlin: Springer-Verlag Publishing Company, 238 pages, 1989.
- Mrkos, A., and Marsden, B. G. "IAU Commission 6." In Reports on Astronomy, vol. XXA, ed. J.-P. Swings, p. 13. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Murray, S. S., and Chappell, J. H. "Advanced X-Ray Astrophysics Facility High Resolution Camera." In X-Ray Instrumentation in Astronomy II, Proceedings of SPIE, vol. 1160, ed. L. Golub, p. 48. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1988.
- Myers, P.C. "Molecular Cloud Structure, Motions, and Evolution." In Molecular Astrophysics, ed. T. Hartquist, p. 328. Cambridge: Cambridge University Press, 1989.
- . "Physical Conditions in Dark Clouds." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 38. Berlin: Springer-Verlag Publishing Company, 1989.

- Nesci, R.; Gioia, I. M.; Maccacaro, T.; Morris, S. L.; Perola, G. C.; Schild, R. E.; and Wolter, A. "A Cooling Flow in a High Redshift X-Ray Selected Cluster of Galaxies." Astrophysical Journal 344 (1989): 104.
- Nesci, R.; Perola, G. C.; Gioia, I. M.; Maccacaro, T.; Schild, R. E.; and Wolter, A. "A Distant X-Ray Selected Cluster with a Cooling Flow: 1E0839.9+2938." In Proceedings of the International Conference on Large-Scale Structures and Motions in the Universe, eds. M. Mezzetti, G. Giuricin, F. Madirossian and M. Ramella, p. 413. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Neufeld, D. A., and Dalgarno, A. "Fast Molecular Shocks I. Reformation of Molecules behind a Dissociative Shock." Astrophysical Journal 340 (1989): 869.
- Nisenson, P. "The Knox-Thompson Method." In European Space Observatory Conference on High Resolution Imaging by Interferometry, Proceedings of the National Optical Astronomy Observatories, ed. F. Meukle, p. 491. Garching bei Munchen: European Southern Observatory, 1988.
- . "Speckle Imaging with PAPA Detector and the Knox-Thompson Algorithm." In Diffraction-Limited Imaging with Very Large Telescopes, Proceedings of a NATO Advanced Study Institute, eds. D. M. Alloin and J.-M. Mariotti, p. 157. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- . "Knox-Thompson Imaging at Low Light Levels." In Quantum Limited Imaging and Information Processing, Technical Digest Series, vol. 13, p. 48. Washington, D.C.: Optical Society of America, 1989.
- Noci, G., and Kohl, J. L. "Il Coronografo Spettrometro Ultravioletto per la Missione Spaziale SOHO." Atti della Fondazione Giorgio Ronchi 1 (1989): 353.
- Noyes, R. W. "The Sun." In The New Solar System, revised, ed. K. Beatty, p. 25. Cambridge, Massachusetts: Sky Publishing Company, 1989.
- . "The Sun." In The World Book Encyclopedia, vol. 18 p. 974. Chicago, Illinois: World Book Inc., 1989.
- Nyman, L.-Å.; Bronfman, L.; and Thaddeus, P. "A CO Survey of the Southern Coalsack." Astronomy and Astrophysics 216 (1989): 185.
- Okumura, Y.; Tsunemi, H.; Yamashita, K.; Matsuoka, M.; Koyama, K.; Hayakawa, S.; Masai, K.; and Hughes, J. P. "TENMA Observations of the X-Ray Spectra of the Coma, Ophiuchus, and Perseus Clusters of Galaxies." Publications of the Astronomical Society of Japan 40 (1988): 639.
- Olano, C. A.; Harju, J.; Menten, K. M.; and Walmsley, C. M. "The Immediate Surroundings of B335-IR and L1551-IRS5." Astronomische Gesellschaft Abstract Series 1 (1988): 32.
- Ostriker, E. C.; Huchra, J. P.; Geller, M. J.; and Kurtz, M. J. "The Kinematics and Dynamics of the Rich Cluster of Galaxies Abell 539." Astronomical Journal 96 (1988): 1775.
- Owocki, S. P.; Castor, J. I.; and Rybicki, G. B. "Time-Dependent Models of Radiatively Driven Stellar Winds. I. Nonlinear Evolution of Instabilities for a Pure Absorption Model." Astrophysical Journal 335 (1988): 914.
- Padin, S.; Sargent, A. I.; Mundy, L. G.; Scoville, N. Z.; Woody, D. P.; Leighton, R. B.; Masson, C. R.; Scott, S. L.; Seling, T. V.; Staplefeldt, K. R.; and Terebey, S. "Interferometric C¹⁸O Observations of DR21(OH) and L1551-IRS5 at $\lambda = 1.4$ Millimeters." Astrophysical Journal (Letters) 337 (1989): L45.

- Papaliolios, C.; Karovska, M.; Koechlin, L.; Nisenson, P.; Standley, C.; and Heathcote, S. "Asymmetry of the Envelope of SN1987A." Nature 338 (1989): 565.
- Pasquini, L.; Schmitt, J. H. M. M.; Harnden, F. R., Jr.; Tozzi, G. P.; and Krautter, J. "X-Ray and Optical Observations of LDS 587." Astronomy and Astrophysics 218 (1989): 187.
- Peres, G.; Reale, F.; Collura, A.; and Fabbiano, G. "Time Variability of the X-Ray Sources in M33." Astrophysical Journal 336 (1989): 140.
- Peterson, R. "The Mass-to-Light Ratios of Extragalactic Globular Clusters." In Dynamics of Dense Stellar Systems, ed. D. Merritt, p. 161. Cambridge: Cambridge University Press, 1989.
- Peterson, R. C., and Latham, D. W. "The Radial Velocity and Velocity Dispersion of the Remote Globular Cluster Palomar 15: Constraints on the Mass of the Galaxy." Astrophysical Journal 336 (1989): 178.
- Petre, R.; Szymkowiak, A. E.; Seward, F.; and Willingale, R. "A Comprehensive Study of the X-Ray Structure and Spectrum of IC 443." Astrophysical Journal 335 (1988): 215.
- Phillips, J. D., and Reasenberg, R. D. "Point-to-Point Laser Metrology for POINTS." In Topical Meeting on Space Optics for Astrophysics and Earth and Planetary Remote Sensing, 1988 Technical Digest Series, vol. 10, p. 22. Washington, D.C.: Optical Society of America, 1988.
- Pineau des Forêts, G.; Flower, D. R.; and Dalgarno, A. "Theoretical Studies of Shocks." Monthly Notices of the Royal Astronomical Society 235 (1988): 621.
- Press, W. H., and Rybicki, G. B. "Fast Algorithm for Spectral Analysis of Unevenly Sampled Data." Astrophysical Journal 338 (1989): 277.
- Prolss, G.W.; Roemer, M.; and Slowey, J. W. "Dissipation of Solar Wind Energy in the Earth's Upper Atmosphere: The Geomagnetic Activity Effect." Advances in Space Research 8(5) (1988): 215.
- Ramella, M.; Geller, M. J.; and Huchra, J. P. "Groups of Galaxies in the Center for Astrophysics Redshift Survey." Astrophysical Journal 344 (1989): 57.
- Ramos, R.; Hing, S.M.; Leidich, C. A.; Fazio, G.; Houck, J. R.; and Rieke, G. "Space Infrared Telescope Facility (SIRTF) Science Instruments." Proceedings of the Society of Photo-Optical Instrumentation Engineers 973-02 (1988).
- Reasenberg, R. D. "On the Threshold: Astrometric Optical Interferometry in Space with POINTS." In Topical Meeting on Space Optics for Astrophysics and Earth and Planetary Remote Sensing, 1988 Technical Digest Series, vol. 10, p. 13. Washington, D.C.: Optical Society of America, 1988.
- Reasenberg, R. D.; Babcock, R.W.; Chandler, J. F.; Gorenstein, M. V.; Huchra, J. P.; Pearlman, M. R.; Shapiro, I. I.; Taylor, R. S.; Bender, P.; Buffington, A.; Carney, B.; Hughes, J. A.; Johnston, K. J.; Jones, B. F.; and Matson, L. E. "Microarcsecond Optical Astrometry: An Instrument and Its Astrophysical Applications." Astronomical Journal 96 (1988): 1731.
- Reasenberg, R. D.; Babcock, R. W.; Chandler, J. F.; and Shapiro, I. I. "Testing General Relativity with POINTS, a Space-Based Astrometric Optical Interferometer." In Proceedings of International Symposium on Experimental Gravitational Physics, ed. P. F. Michelson, p. 3. Singapore: World Scientific Publishing Company, 1988.

- Reasenberg, R. D., and Vessot, R. F. C. (editors). Proceedings of Symposium 15 of the COSPAR 27th Plenary Meeting, "Relativistic Gravitation," Advances in Space Research, vol. 9(9). Oxford: Pergamon Press, 1989.
- Regos, E., and Geller, M. J. "Infall Patterns Around Rich Clusters of Galaxies." Astronomical Journal 98 (1989): 755.
- Reid, M. J. "The Distance to the Galactic Center: R_0 ." In The Center of the Galaxy, Proceedings of IAU Symposium No. 136, ed. M. Morris, p. 37. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Reid, M. J.; Biretta, J. A.; Junor, W.; Muxlow, T. W. B.; and Spencer, R. E. "Subluminal Motion and Limb Brightening in the Nuclear Jet of M87." Astrophysical Journal 336 (1989): 112.
- Reitsema, H. J.; Delamere, W. A.; and Whipple, F. L. "Active Polar Regions on the Nucleus of Comet Halley." Science 241 (1989): 198.
- Rodríguez, L. F.; Cantó, J.; and Moran, J. M. "The Bipolar HII Region NGC 6334A." Astrophysical Journal 333 (1988): 801.
- Roncin, J. Y.; Launay, F.; and Yoshino, K. "Vacuum Ultraviolet Emission from Highly Excited States of Molecular Nitrogen." Journal of Molecular Spectroscopy 134 (1989): 390.
- Rosenkrantz, M. E., and Kirby, K. "Theoretical Study of Low-Lying $^1\Sigma^-$ and $^1\Delta$ States of CO." Journal of Chemical Physics 90 (1989): 6528.
- Rosner, R., and Tucker, W. H. "On Magnetic Fields, Heating and Thermal Conduction in Halos, and the Suppression of Cooling Flows." Astrophysical Journal 338 (1989): 761.
- Rubio, M.; Garay, G.; Dame, T. M.; and Thaddeus, P. "A CO Survey of the Large Magellanic Cloud." In Molecular Clouds in the Milky Way and External Galaxies, Lecture Notes in Physics No. 315, eds. R. Dickman, R. L. Snell, and J. S. Young, p. 423. Berlin: Springer-Verlag Publishing Company, 1988.
- Rybicki, G. B. "Dawson's Integral and the Sampling Theorem." Computers in Physics 3 (No. 2) (1989): 85.
- Ryden, B. S. "Collapse of Density Peaks in a Gaussian Random Field." Astrophysical Journal 333 (1988): 78.
- . "The Area of Isodensity Contours as a Measure of Large Scale Structure." Astrophysical Journal (Letters) 333 (1988): L41.
- . "The Area of Isodensity Contours in Gaussian and non-Gaussian Fields." Publications of the Astronomical Society of the Pacific 100 (1988): 1360.
- Ryden, B. S.; Melott, A. L.; Craig, D. A.; Gott, J. R., III; Weinberg, D. H.; Scherrer, R. J.; Bhavsar, S. P.; and Miller, J. M. "The Area of Isodensity Contours in Cosmological Models and Galaxy Surveys." Astrophysical Journal 340 (1989): 647.
- Saar, S. H. "The Magnetic Fields on Cool Stars and Their Correlation with Chromospheric and Coronal Emission." In The NATO Advanced Study Institute on Hot Thin Plasmas in Astrophysics, ed. R. Pallavicini, p. 139. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Sahai, R.; Claussen, M. J.; and Masson, C. R. "The Centimeter Radio Continuum from IRC+10216 and Other Late-Type Stars with Mass Loss Envelopes." Astronomy and Astrophysics 220 (1989): 92.

- Sargent, A. I.; Beckwith, S.; Keene, J. B.; and Masson, C. R. "Small-Scale Structure of the Circumstellar Gas around L1551 IRS 5." Astrophysical Journal 333 (1989): 936.
- Schild, R., and Weir, N. "The Optical Nebulosity Around the T Tauri Star RNO 91 in the L43 Dense Molecular Core." Astronomical Journal 97 (1989): 1110.
- Schrijver, C. J.; Coté, J.; Zwaan, C.; and Saar, S. H. "Relations between the Photospheric Magnetic Field and the Emission from the Outer Atmospheres of Cool Stars I. The Solar Ca II K Line-Core Emission." Astrophysical Journal 337 (1989): 964.
- Schwartz, D. A.; Qian, Y.; and Tucker, W. H. "The Shape of Soft X-Ray Spectra of Quasars." In Active Galactic Nuclei, Proceedings of IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 175. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Seitzer, P.; Peterson, R.; and Cudworth, K. "The Dynamics of M15." In Dynamics of Dense Stellar Systems, ed. D. Merritt, p. 153. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Seward, F. D. "The Crab-Like Supernova Remnants." Space Science Reviews 49 (1989): 385.
- . "X-Rays from G54.1+0.3." Astronomical Journal 97 (1989): 481.
- Shapiro, I. I.; Reasenberg, R. D.; Chandler, J. F.; and Babcock, R. W. "Measurement of the de Sitter Precession of the Moon: A Relativistic Three-Body Effect." Physical Review Letters 61 (1988): 2643.
- Slane, P., and Fry, W. F. "Anomalous Periodicity in the Very High Energy Gamma-Ray Sources." Astrophysical Journal 342 (1989): 1129.
- Slane, P.; McLaughlin, E. R.; Schwartz, D. A.; Van Speybroeck, L. P.; Bilbro, J. W.; and Nerren, B. H. "Measurement of the Effects of Particulate Contamination on X-Ray Reflectivity." In Reflective Optics II, Proceedings of SPIE, vol. 1113, ed. D. Korsch, p. 12. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Slowey, J. W. "The Impact of Tether on Atmospheric Science." In Tethers in Space Toward Flight, p. 127. Washington, D.C.: American Institute of Aeronautics and Astronautics, Inc., 1989.
- Spiller, E.; Grebe, K.; and Golub, L. "Filters for Soft X-Ray Solar Telescopes." In X-Ray/EUV Optics for Astronomy and Microscopy, Proceedings of SPIE, vol. 1160, ed. R. B. Hoover, p. 66. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Stacy, J. G.; Bitran, M. E.; Dame, T. M.; and Thaddeus, P. "Wide-Line Molecular Clouds and the Gamma-Ray Deficit Toward the Galactic Center." The Center of the Galaxy, Proceedings of IAU Symposium No. 136, ed. M. Morris, p. 157. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Stacy, J. G.; Myers, P. C.; and de Vries, H. W. "A Search for Dense Cores in High-Latitude Molecular Clouds." In Molecular Clouds in the Milky Way and External Galaxies, Lecture Notes in Physics No. 315, eds. R. Dickman, R. L. Snell, and J. S. Young, p. 38. Berlin: Springer-Verlag Publishing Company, 1988.
- . "Dense Cores Associated with Diffuse, High Latitude Molecular Clouds." In

- The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 117. Berlin: Springer-Verlag Publishing Company, 1989.
- Sternberg, A., and Dalgarno, A. "The Infrared Response of Molecular Hydrogen Gas to Ultraviolet Radiation: High Density Regions." Astrophysical Journal 338 (1989): 197.
- Sternberg, A.; Dalgarno, A.; and Rouef, E. "The Bowen Mechanism and Charge Transfer." Comments on Astrophysics 13 (1988): 29.
- Stoche, J. T.; Hartigan, P. M.; Strom, S. E.; Strom, K. M.; Anderson, E. R.; Hartmann, L. W.; and Kenyon, S. J. "A Detailed Study of the Lynds 1551 Star Formation Region." Astrophysical Journal (Supplement) 68 (1988): 229.
- Stoche, J. T.; Morris, S. L.; Gioia, I. M.; Maccacaro, T.; Schild, R. E.; and Wolter, A. "The Optical and Radio Properties of X-Ray Selected BL Lacertids." In Proceedings of the Meeting on BL Lac Objects: 10 Years After, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 242. Berlin: Springer-Verlag Publishing Company, 1989.
- Strong, A. W.; Bloemen, J. B. G. M.; Dame, T. M.; Grenier, I. A.; Hermsen, W.; Lebrun, F.; Nyman, L.-Å.; Pollock, A. M. T.; and Thaddeus, P. "The Radial Distribution of Galactic Gamma Rays IV. The Whole Galaxy." Astronomy and Astrophysics 207 (1988): 1.
- Tananbaum, H. "The Advanced X-Ray Astrophysics Facility." In Hot Thin Plasmas in Astrophysics, ed. R. Pallavicini, p. 379. Dordrecht, Holland: Kluwer Academic Publishers, 1988.
- Tang, G.; Rönnäng, B.; and Bååth, L. "Radio Source Structure from Geodetic VLBI Observations: Evolution of the Quasar 3C345 at 8 GHz." Astronomy and Astrophysics 216 (1989): 31.
- Terebey, S.; Vogel, S. N.; and Myers, P. C. "High Resolution CO Observations of Young Low-Mass Stars." Astrophysical Journal 340 (1989): 472.
- Thaddeus, P. "Galactic Molecular Surveys: The Role of Small Telescopes." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 14. Berlin: Springer-Verlag Publishing Company, 1989.
- Thorstensen, J. R.; Brownsberger, K. R.; Mook, D. E.; Remillard, R. A.; McClintock, J. E.; Koo, D. C.; and Charles, P. A. "Optical Observations of the X-Ray Binary V1727 Cygni (=4U2129+47) during a Low State: Some Unexpected Results." Astrophysical Journal 334 (1988): 430.
- Thorstensen, J.; Wegner, G.; Hamwey, R.; Boley, F.; Geller, M.; Huchra, J.; and Kurtz, M. "Redshifts for a Sample of Fainter Galaxies in the First CfA Survey Slice." Astronomical Journal 98 (1989): 1143.
- Torrelles, J. M.; Ho, P. T. P.; Rodríguez, L. F., and Cantó, J. "Ammonia Observations of the AFGL 2591 Region: A Possible Cavity in the Molecular Cloud." Astrophysical Journal 343 (1989): 222.
- Traub, W. A. "Polarization Effects in Stellar Interferometers." In High Resolution Imaging by Interferometry, ESO Conference Proceedings No. 29, ed. F. Merkle, p. 1029. Garching bei München, FRG: European Southern Observatory, 1988.
- Traub, W. A., and Lacasse, M. G. "Laboratory Measurements of Visibility Using

- Dispersed Fringes in Wavenumber Space." In High Resolution Imaging by Interferometry, ESO Conference Proceedings No. 29, ed. F. Merkle, p. 947. Garching bei Munchen, FRG: European Southern Observatory, 1988.
- Trinchieri, G.; Fabbiano, G.; and Bandiera, R. "Far-Infrared Emission and Star Formation in Spiral Galaxies." Astrophysical Journal 342 (1989): 759.
- Turnshek, D. A.; Wolfe, A. M.; Lanzetta, K. M.; Briggs, F. H.; Cohen, R. D.; Foltz, C. G.; Smith, H. E.; and Wilkes, B. J. "Damped Lyman-Alpha Absorption by Disk Galaxies with Large Redshifts. III. Intermediate-Resolution Spectroscopy." Astrophysical Journal 334 (1989): 567.
- Ungerechts, H., and Thaddeus, P. "A CO Survey of the Giant Molecular Cloud Complex Toward Cas A." In The Physics and Chemistry of Interstellar Molecular Clouds, Lecture Notes in Physics No. 331, eds. G. Winnewisser and J. T. Armstrong, p. 213. Berlin: Springer-Verlag Publishing Company, 1989.
- Unwin, S.; Cohen, M.; Biretta, J.; Hodges, M.; and Zensus, J. "Superluminal Motion in the Quasar 3C 279." Astrophysical Journal 340 (1989): 117.
- Vacanti, G.; Cawley, M. F.; Fegan, D. J.; Gibbs, K. G.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lewis, D. A.; Macomb, D.; Porter, N. A.; Reynolds, P. T.; and Weekes, T. C. "Search for Pulsed TeV Emission from PSR0531+21." In Cosmic Gamma Rays, Neutrinos, and Related Astrophysics, Proceedings of the NATO Advanced Study Institute, vol. 270, eds. M. M. Shapiro and J. P. Wefel, p. 245. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Vacanti, G.; Cawley, M. F.; Fegan, D. J.; Hillas, A. M.; Kwok, P. W.; Lamb, R. C.; Lang, M. J.; Lewis, D. A.; Macomb, D. J.; Reynolds, P. T.; and Weekes, T. C. "TeV Gamma-Ray Astronomy in the GRO Era." In Proceedings of the Gamma-Ray Observatory Workshop, ed. W. N. Johnson, p. 4-40. Greenbelt, Maryland: Goddard Space Flight Center, 1989.
- van Ballegooijen, A. A. "Magnetic Fields in the Accretion Disks of Cataclysmic Variables." In Magnetic Fields and Accretion Disks in Astrophysics, ed. G. Belvedere, p. 99. Dordrecht, Holland: D. Reidel Publishing Company, 1989.
- van Ballegooijen, A. A., and Martens, P. C. H. "Formation and Eruption of Solar Prominences." Astrophysical Journal 343 (1989): 971.
- Van Speybroeck, L.; Reid, P.; Schwartz, D.; and Bilbro, J. "Predicted and Preliminary Evaluation of the X-Ray Performance of the AXAF Technology Mirror Assembly." In X-Ray/EUV Optics for Astronomy and Microscopy, Proceedings of SPIE, vol. 1160, ed. R. B. Hoover, p. 94. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Vessot, R. F. C. "Hydrogen Maser Clocks and Deep Space Systems Involving Clocks." In Proceedings of International Symposium on Experimental Gravitational Physics, ed. P. F. Michelson, p. 14. Singapore: World Scientific Publishing Company, 1988.
- . "Clocks and Spaceborne Tests of Relativistic Gravitation." Advances in Space Research 9(9) (1989): 21.
- Vessot, R. F. C.; Mattison, E. M.; Walsworth, R. L.; and Silvera, I. F. "The Cold Hydrogen Maser." In Frequency Standards and Metrology, ed. A. DeMarchi, p. 88. Berlin: Springer-Verlag Publishing Company, 1989.
- Vetrella, S.; Moccia, A.; Lorenzini, E. C.; and Cosmo, M. "Attitude Dynamics

- of the Tether Elevator/Crawler System for Micro-Gravity Applications." In Tethers in Space Toward Flight, p. 323. Washington, D.C.: American Institute of Aeronautics and Astronautics, Inc., 1989.
- Walsh, D. E. P.; Knapp, G. R.; Wrobel, J. M.; and Kim, D.-W. "Interstellar Matter in Early Type Galaxies. III. Radio Emission and Star Formation." Astrophysical Journal 337 (1989): 209.
- Weekes, T. C. "Gamma-Ray Astronomy at the Highest Energies." Nuclear Instruments and Methods (Proceedings of the 4th International Conference on Radiation Physics, Sao Paulo, Brazil), A280 (1989): 349.
- . "TeV Gamma Ray Astronomy." Nuclear Physics B 10B (1989): 41.
- Whipple, F. L. "Comets in the Space Age." Astrophysical Journal 341 (1989): 1.
- Wilkes, B. J.; Elvis, M.; and McDowell, J. "Is There a Relation between Optical Emission Line Strengths and Continuum Shapes." In Active Galactic Nuclei, IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 187. Dordrecht, Holland: Kluwer Academic Publishers, 1989.
- Willette, G. T. "The Formation of Tangential Discontinuities in Line-Tied Force-Free Fields: Topological Heating of the Solar Corona." Senior Thesis, Astronomy Department, Harvard University (1988).
- Wilson, T. L.; Johnston, K. J.; Henkel, C.; and Menten, K. M. "The Distribution of Hot Thermal Methanol in Orion-KL." Astrophysical Journal 214 (1989): 321.
- Winkler, P. F.; Kirshner, R. P.; Hughes, J. P.; and Heathcote, S. "A Second Supernova Inside Puppis A." Nature 337 (1989): 48.
- Withbroe, G. L. "The Solar Wind Mass Flux." Astrophysical Journal (Letters) 337 (1989): L49.
- Wolter, A. "Properties of a Large Sample of X-Ray Selected Active Galactic Nuclei from the Einstein Observatory Medium Sensitivity Survey." In Active Galactic Nuclei and Supernova, Proceedings of the 20th Yamada Conference on Big Bang, eds. S. Hayakawa and K. Sato, p. 175. Tokyo, Japan: Universal Academy Press, Inc., 1989.
- Wood, D. O. S., and Churchwell, E. "The Morphologies and Physical Properties of Ultracompact H II Regions." Astrophysical Journal Supplement 69 (1989): 831.
- . "Massive Stars Embedded in Molecular Clouds: Their Population and Distribution in the Galaxy." Astrophysical Journal 340 (1989): 265.
- Wood, J. A., and Hashimoto, A. "Effects of Redox State on Stable Mineral Assemblages in the Solar Nebula" (abstract). In Proceedings of the 28th International Geological Congress, vol. 3, p. 380. Washington, D.C.: International Geological Congress, 1989.
- Woodward, D. R.; Pearson, J. C.; Gottlieb, C. A.; and Thaddeus, P. "The Radio Spectrum of the C₄D Radical." Astrophysical Journal (Letters) 333 (1988): L29.
- Worrall, D. M. "Spectral Components of BL Lac Objects and Other Compact Extragalactic Radio Sources." In Proceedings of the Meeting on BL Lac Objects: 10 Years After, eds. L. Maraschi, T. Maccacaro, and M.-H. Ulrich, p. 305. Berlin: Springer-Verlag Publishing Company, 1989.
- Worrall, D. M., and Wilkes, B. J. "A Comparison of the X-Ray Spectra of Quasars and BL Lac objects." In Active Galactic Nuclei, Proceedings of IAU Symposium No. 134, eds. D. E. Osterbrock and J. S. Miller, p. 197. Dordrecht, Holland:

- Kluwer Academic Publishers, 1989.
- Wu, C.-C.; Panek, R. J.; Holm, A. V.; Raymond, J. C.; Hartmann, L. W.; and Swank, J. "Ultraviolet Spectrophotometry and Optical and Infrared Photometry of the Old Nova GK Persei." Astrophysical Journal 339 (1989): 443.
- Yoshino, K.; Cheung, A. S.-C.; Esmond, J. R.; Parkinson, W. H.; Freeman, D. E.; Guberman, S. L.; Jenouvrier, A.; Coquart, B.; and Merienne, M. F. "Improved Absorption Cross Sections of Oxygen in the Wavelength Region 205-240 nm of the Herzberg Continuum." Planetary and Space Science 36 (1988): 1469.
- Yoshino, K.; Freeman, D. E.; Esmond, J. R.; Friedman, R. S.; and Parkinson, W. H. "High Resolution Absorption Cross Sections and Band Oscillator Strengths of the Schumann-Runge Absorption Bands of Isotopic Oxygen, $^{18}\text{O}_2$, at 79K." Planetary and Space Science 36 (1988): 1201.
- . "High Resolution Absorption Cross Sections and Band Oscillator Strengths of the Schumann-Runge Absorption Bands of Isotopic Oxygen, $^{16}\text{O}^{18}\text{O}$, at 79K." Planetary and Space Science 37 (1989): 419.
- Zombeck, M. V. "Imaging at Soft X-Ray Wavelengths with Microchannel Plates." In X-Ray Instrumentation in Medicine and Biology, Plasma Physics, Astrophysics, and Synchrotron Radiation, Proceedings of the SPIE, vol. 1140, ed. R. Denat-tar, p. 58. Bellingham, Washington: Society of Photo-Optical Instrumentation Engineers, 1989.
- Zygelman, B.; Dalgarno, A.; Kimura, M.; and Lane, N. F. "Radiative and Non-Radiative Charge Transfer in $\text{He}^+ + \text{H}$ Collisions at Low Energy." Physical Review A 40 (1989): 2340.

SMITHSONIAN ENVIRONMENTAL RESEARCH CENTER

- Correll, D. L. (1989). The nature of solar radiation and its spatial and temporal variation on the earth's surface. pp. 19-21. In: A. Moshell (ed.), Sunlight, Ultraviolet Radiation, and the Skin. NIH Consensus Development Conference. U.S. Government Printing Office, Washington, D.C.
- Curtis, P. S.; B. G. Drake; and D. F. Whigham. (1989). Nitrogen and carbon dynamics in C3 and C4 estuarine marsh plants grown under elevated CO₂ in situ. Oecologia 78: 297-301.
- Curtis, P. S.; B. G. Drake; P. W. Leadley; W. J. Arp and D. F. Whigham. (1989). Growth and senescence in plant communities exposed to elevated CO₂ concentrations on an estuarine marsh. Oecologia 76: 20-26.
- Drake, B. G. (1989). Photosynthesis of saltmarsh species. Aquatic Botany 34: 167-180.
- Drake, B. G.; P. W. Leadley; W. J. Arp; D. Nassiry and P. S. Curtis. (1989). An open top chamber for field studies of elevated atmospheric CO₂ concentration on saltmarsh vegetation. Functional Ecology 3: 363-371.
- Hines, A. H. (1988). Fecundity and reproductive output in two species of deep-sea crabs, *Geryon fenneri* and *G. quinquedens* (Decapoda: Brachyura). Journal of Crustacean Biology 8: 557-562.
- Hines, A. H. (1989). Geographic variation in size at maturity in Brachyuran crabs. Bulletin of Marine Science 45: 301-327.
- Hines, A. H.; M. H. Posey and P. J. Haddon. (1989). Effects of adult suspension- and deposit-feeding bivalves on recruitment of estuarine infauna. The Veliger 32: 109-119.
- Leck, M. A.; R. L. Simpson; D. F. Whigham and C. F. Leck. (1988). Plants of the Hamilton Marshes: A Delaware River freshwater tidal wetland. Bartonia 54: 1-17.
- Monk, C. D.; D. W. Imm; R. L. Potter and G. G. Parker. (1989). A classification of the deciduous forest of eastern North America. Vegetatio 80: 167-181.
- Parker, G. G. (1989). Are currently available statistical methods adequate for long-term studies? pp. 199-200. In: G. E. Likens (ed.), Long-term studies in ecology, approaches and alternatives. Springer Verlag, New York.
- Pearse, J. S. and A. H. Hines. (1987). Long-term population dynamics of sea urchins in a central California kelp forest: rare recruitment and rapid decline. Marine Ecology Progress Series 39: 275-283.
- Rublee, P. A. and C. L. Gallegos. (1989). Use of fluorescently labelled algae (FLA) to estimate microzooplankton grazing. Marine Ecology Progress Series 51: 221-227.
- Whigham, D. F.; B. Palmer and C. Chitterling. (1988). The impacts of freshwater wetlands and water quality: a landscape perspective. Environmental Management 12: 663-671.
- Whigham, D. F. and J. O'Neill. (1988). The importance of predation and small scale disturbance to two woodland herb species. pp. 243-252. In: M. J. A. Werger, P. J. M. van der Aart, H. J. During and J. T. A. Verhoeven (eds.), Plant form and vegetation structure: adaptation, plasticity and relation to herbivory. SPB Academic Publishers, The Hague, The Netherlands.

- Weller, D. E. (1987). Self-thinning exponent correlated with allometric measures of plant geometry. Ecology 68: 813-821.
- Weller, D. E. (1987). A reevaluation of the $-3/2$ power rule of self-thinning. Ecological Monographs 57: 23-43.
- Weller, D. E. (1989). The interspecific size-density relationship among crowded plant stands and its implications for the $-3/2$ power rule of self-thinning. American Naturalist 133: 20-41.
- Wolcott, T. G. and A. H. Hines. (1989). Ultrasonic biotelemetry of muscle activity from free-ranging marine animals: a new method for studying foraging by Blue Crabs (*Callinectes sapidus*). Biological Bulletin 176: 50-56.

SMITHSONIAN INSTITUTION ARCHIVES

- Bain, Alan L. "Guide to the Records of the National Zoological Park, 1887-1965, and undated." Guides to Collections in the Smithsonian Archives, no. 10. Archives and Special Collections of the Smithsonian Institution. Washington, D.C.: Smithsonian Archives, 1989.
- Shoemaker, Rebecca V. "Guide to the Papers of Robert E. Silberglied, 1946-1984, and undated." Guides to Collections in the Smithsonian Archives, no. 9. Archives and Special Collections of the Smithsonian Institution. Washington, D.C.: Smithsonian Archives, 1989.
- Vogt-O'Connor, Diane L. "The American Album." In Images of America. Washington, D.C.: Smithsonian Institution Press, 1989.

Smithsonian Institution Libraries

- Silvio A. Bedini, Thomas Jefferson, Statesman of Science. New York: Macmillan, 1989.
- Nancy E. Gwinn. "Libraries and Scholarly Communication in the United States, the Historical Dimension: A Summary", Libraries & Culture. A Journal of Library History 23, No. 4 (Fall 1988): 499-506. Reprinted from the Library of Congress Information Bulletin 47: 16.
- _____. "The Smithsonian Institution Libraries: Afoot in Three Camps," College & Research Libraries 50, No. 2 (March 1989): 206-214.
- Kay A. Kenyon. "National Zoological Park Library", Sci-Tech Libraries Serving Zoological Gardens, Ellis Mount, ed. Science and Technology Libraries 8 (4): 1-8. New York: The Haworth Press, 1988.
- _____. Directory of Zoo and Aquarium Libraries. Intro., Table of Contents, Index. 41 pp. Washington, D.C.: Smithsonian Institution Libraries, (June) 1989.
- Karen Preslock, "Pest Control in Museums (1986): A Partially Annotated Bibliography," A Guide to Museum Pest Control. Lynda A. Zycherman and John Richard Schrock, eds. pp. 177-98. Washington, D.C.: Foundation of the American Institute for Conservation of Historic and Artistic Works and the Association of Systematics Collections, 1988.
- Joyce M. Rey-Watson. "Online Bibliographic Resources in Astronomy and Astrophysics". Harvard-Smithsonian Center for Astrophysics Preprint Series No. 2758 (3 pp.), October, 1988. To appear in Proceedings of IAU Colloquium No. 110, "Library and Information Services in Astronomy", G. Wilkins and S. Stevens-Rayburn, eds.
- _____. "It's All in One Place with SIMBAD", Information Systems Newsletter, Issue 15 (Dec. 1988): 22-24. OSSA: NASA Office of Space Science and Applications.
- _____ and Roger Hauck. "SIMBAD". Data Systems Users Working Group (DSUWG) Proceedings, October 24-26, 1988. Anaheim, California. Edited by Valerie L. Thomas and James L. Green. pp. 103-109. Greenbelt, Maryland: NASA NSSDC, 1989.
- _____ with others. SIMBAD's User's Guide (English version), 1989.
- _____ with Carol Rhodes and Michael Kurtz. An Astronomical Software Documentation Collection at the Smithsonian Astrophysical Observatory. Center for Astrophysics Preprint Series No. 2728 [i, 10]. Harvard-Smithsonian Center for Astrophysics, 1988.
- Martin A. Smith and Susan S. Mottu, eds., Encyclopedia of Physical Sciences and Engineering Information Sources. Detroit: Gale Research, Inc., 1989.
- Janet L. Stanley. Review: Honey from the lion: an African journey, by Wendy Belcher. Library Journal (New York) April 1, 1988.
- _____. Review: Mande blacksmiths: knowledge, power, and art in West Africa (1988) by Patrick R. McNaughton. In Art

- documentation (Tucson) 7 (4): 172 (Winter 1988).
- _____. Review. "South African music encyclopedia (1969-1986). African Book Publishing Record 14 (2): 108 (1988).
- Ellen B. Wells. "Horse History Books," in National Sporting Library Newsletter, No. 25: [5-7].
- _____. "Wood, John George (1827-1889)." In Victorian Britain: an Encyclopedia. p. 871. New York: Garland Publishing, 1988.
- _____. "Stratigraphy's Golden Age: Murchison and His Silurian System" (illustrated exhibition catalogue), Washington, D.C.: Smithsonian Institution Libraries, 1989.

SMITHSONIAN TROPICAL RESEARCH INSTITUTE

- Abele, Lawrence G. and Kim, Won. "The Decapod Crustaceans of the Panama Canal." Smithsonian Contributions to Zoology 482: 1-50 (1989).
- Aide, T. Mitchell. "Herbivory as a Selective Agent on the Timing of Leaf Production in a Tropical Understory Community." Nature 336 (6199): 574-575 (1988).
- Ainly, D.G., Carter, H.R., Anderson, D.W., Briggs, K.T., Coulter, M.C., Cruz, J.B., Valle, C.A., Fefer, S.I., Hatch, S.A., Schreiber, E.A., Schreiber, R.W., and Smith, N.G. "Effects of the 1982-83 El Niño - Southern Oscillation on Pacific Ocean Bird Populations. In: Proceedings of the International Ornithological Congress, Ottawa, Canada 1986: 1747-1758 (1989).
- Aiello, Annette. "A Field Guide to Coastal Wetland Plants of the Northeastern United States," by Ralph W. Tiner Jr." (Book review). Library Journal 112 (2): 71 (1987).
- _____. "Bites and Stings: The World of Venomous Animals, by John Nichol (Book review). Library Journal (July 1989).
- _____. "Enduring Seeds: Native American Agriculture and Wild Plant Conservation, by Gary Paul Nabhan" (Book review). Library Journal (March 1989).
- _____. "New Generation Guide to the Wild Flowers of Britain and Northern Europe, by Alistair Fitter" (Book review). Library Journal 112 (13): 116 (1987).
- _____. "The RHS Encyclopedia of House Plants Including Greenhouse Plants, by Kenneth A. Becket with Royal Horticultural Society" (Book review). Library Journal 112 (16): 86 (1987).
- _____. "The Smithsonian Guide to Seaside Plants of the Gulf and Atlantic Coasts from Louisiana to Massachusetts, Exclusive of Lower Peninsular Florida, by Wilbur H. Duncan and Marion B. Duncan" (Book review). Library Journal 112 (11): 78 (1987).
- _____. "Plantwatching: How Plants Remember, Tell Time, Form Partnerships and More, by Malcolm Wilkins" (Book review). Library Journal 113 (18): 101 (1988).
- _____. "Wily Violets and Underground Orchids, by Peter Bernhardt" (Book review). Library Journal 114 (10): 138, 140 (June 1989).
- _____. "The World of Northern Evergreens, by E. C. Pielou" (Book review). Library Journal 113 (6): 92 (1988).
- Aiello, Annette and Brown Jr., Keith S. "Mimicry by Illusion in a Sexually Dimorphic, Day-Flying Moth, Dysschema jansonis (Lepidoptera: Arctiidae: Pericopinae)." Journal of Research on the Lepidoptera 26 (1-4): 173-176 (1988).
- Alverson, William S. "Quararibea (Bombacaceae): Five New Species from Moist and Wet Forests of Costa Rica and Panama." Brittonia 41 (1): 61-74 (1989).
- Andrews, Robin M. "Conservation Biology: The Science of Scarcity and Diversity, edited by Michael E. Soule" (Book review). The Journal of Heredity 78 (1): 62 (1987).
- _____. "Demographic Correlates of Variable Egg Survival for a Tropical Lizard." Oecologia 76 (3): 376-382 (1988).
- Angehr, George R. Descorriendo la Cortina Verde: Evolución de la Biología Tropical en Panamá. Parting the Green Curtain: The Evolution of Tropical Biology in Panama. Published in conjunction with the exhibition Parting the Green Curtain: The Evolution of Tropical Biology in Panama, the occasion of the opening of the Tupper Research and Conference Center of the Smithsonian Tropical Research Institute, Panama City, Panama. (Anaconda Press, 1989).

- Aparicio Méndez, Rolando. Determinación de Trazas de Cobre en Muestras de Corales y Auga de Mar Cercanas a Bahía Las Minas. Tesis, Escuela de Química, Facultad de Ciencias Naturales y Exactas (Panamá: Universidad de Panamá, 1988).
- Arias, T.D., Inaba, T., Cooke, Richard G. and Jorge, L.F. "A Preliminary Note on the Transient Polymorphic Oxidation of Sparteine in the Ngawbé Guaymí Amerindians: A Case of Genetic Divergence with Tentative Phylogenetic Time Frame for the Pathway." Clin Pharmacol Ther 44 (3): 343-352 (1988).
- Augsburger, Carol K. "Impact of Pathogens on Natural Plant Populations" in Plant Population Ecology, The 28th Symposium of the British Ecological Society, Sussex 1987: 413-433. Edited by A.J. Davy, M.J. Hutchings and A.R. Watkinson (Oxford: Blackwell Scientific Publications, 1988).
- _____. "Plant Populations and Pathogens", Book review of Diseases and Plant Population Biology, by Jeremy J. Burdon. Ecology 69 (2): 552 (1988).
- Augsburger, Carol K. and Franson, Susan E. "Input of Wind-Dispersed Seeds into Light-Gaps and Forest Sites in a Neotropical Forest." Journal of Tropical Ecology 4 (3): 239-252 (1988).
- Avise, John C., Arnold, Jonathan, Ball, R. Martin, Bermingham, Eldredge, Lamb, Trip, Neigel, Joseph E., Reeb, Carol A. and Saunders, Nancy C. "Intraspecific Phylogeography: The Mitochondrial DNA Bridge Between Population Genetics and Systematics." Annual Review of Ecology and Systematics 18: 489-522 (1987).
- Ball Jr., R. Martin, Freeman, Scott, James, Frances C., Bermingham, Eldredge and Avise, John C. "Phylogeographic Population Structure of Red-Winged Blackbirds Assessed by Mitochondrial DNA." Proceedings of the National Academy of Science 85: 1558-1562 (1988).
- Baumgartner, Donald L. and Roubik, David W. "Ecology of Necrophilus and Filth-Gathering Stingless Bees (Apidae: Meliponinae) of Peru." Journal of the Kansas Entomological Society 62 (1): 11-22 (1989).
- Becker, P., Erhart, D.W. and Smith, A.P. "Analysis of Forest Light Environments Part I. Computerized Estimation of Solar Radiation from Hemispherical Canopy Photographs." Agricultural and Forest Meteorology 44: 217-232 (1989).
- Belwood, Jacqueline J. "Foraging Behavior, Prey Selection, and Echolocation in Phyllostomine Bats (Phyllostomidae)." In Animal Sonar: 601-605. Edited by Paul E. Nachtigall and Patrick W.B. Moore (New York: Plenum, 1988).
- _____. The Influence of Bat Predation on Calling Behavior in Neotropical Forest Katydid (Insecta: Orthoptera: Tettigoniidae). Ph.D. dissertation (Gainesville: University of Florida, 1988).
- _____. "Sounds of Silence". Bats 6 (2): 5-9 (1988).
- Blake, J.G. "Birds of Primary Forest Undergrowth in Western San Blas, Panama." Journal of Field Ornithology 60 (2): 178-189 (1989).
- Brawn, Jeffrey D. "Selectivity and Ecological Consequences of Captivity Nesters Using Natural vs. Artificial Nest Sites." The Auk 105 (4): 789-791 (1988).
- Brawn, Jeffrey D. and Balda, Russell P. "The Influence of Silvicultural Activity on Ponderosa Pine Forest Bird Community in the Southwestern United States" in Bird Conservation 3: 3-21. Edited by Jackson, Jerome A. The International Council for Bird Preservation, United States Section: The University of Wisconsin Press (1988).
- Briceño, Jorge and Eberhard, William G. "Functional Morphology of Cerci in Male Earwigs." Proceedings of the XVIII International Congress of Entomology, Vancouver, British Columbia, Canada: 208 (1988).

- Brucher, Heinz. Useful Plants of Neotropical Origin (New York: Springer-Heidelberg, 1989).
- Bush, Mark, Piperno, Dolores, and Colinvaux, P. "A 6,000 Year History of Amazonian Maize Cultivation." Nature 340: 303-305 (1989).
- Camargo, J.M.F., Moure, J.S. and Roubik, David W. "Melipona yucatanica New Species (Hymenoptera: Apidae: Meliponinae); Stingless Bee Dispersal Across the Caribbean Arc and Post-Eocene Vicariance." Pan-Pacific Entomologist 64 (2): 147-157 (1988).
- Castro, Gonzalo. Ecophysiology of Sanderlings Migrating to Four Different Latitudes. Ph.D. dissertation, University of Pennsylvania, Philadelphia (1988).
- Castro, Gonzalo and Castro, J.S. "A Dovokie at Island Beach State Park." Cassinia 62: 61-62 (1988).
- Castro, Gonzalo and Myers, J.P. "Snowy Plover (Charadrius alexandrinus) Records from Panama." American Birds 42 (3): 374 (1988).
- Christy, John H. "Attractiveness, Mate Choice and a Sensory Trap in the Fiddler Crab Uca beebei" (Abstract). American Zoologist 28 (4): 133A (1988).
- Cole, Kathleen S. "Predicting the Potential for Sex-Change on the Basis of Ovarian Structure in Gobiid Fishes." Copeia 1988 (4): 1082-1086 (1988).
- Coley, Phyllis D. "Interspecific Variation in Plant Anti-Herbivore Properties: The Role of Habitat Quality and Rate of Disturbance." New Phytologist 106 (Suppl.): 251-263 (1987).
- _____. "Effects of Plant Growth Rate and Leaf Lifetime on the Amount and Type of Anti-Herbivore Defense." Oecologia 74: 531-536 (1988).
- Coley, Phyllis D. and Aide, T. Mitchell. "Red Coloration of Tropical 3 Young Leaves: A possible Antifungal Defense?" Journal of Tropical Ecology 50: 293-300 (1989).
- Cooke, Richard G. "Some Ecological and Technological Correlates of Coastal Fishing in Formative Pacific Panama" in Diet and Subsistence: Current Archaeological Perspectives: 127-140. Edited by Brenda V. Kennedy and Genevieve M. LeMoine (The Archaeological Association of the University of Calgary, 1988).
- Cooke, Richard G. and Bush, Mark. "Out-of-Season Red-Necked Phalaropes in Central Panama." Journal of Field Ornithology 60 (1): 39-42 (1989).
- Cooke, Richard G. and Ranere, Anthony J. "Hunting in Pre-Columbian Panama: A Diachronic Perspective" in The Walking Larder. Patterns of Domestication, Pastoralism, and Predation: 295-315 (1989).
- Craig, Catherine L. "The Significance of Spider Size to the Diversification of Spider-Web Architectures and Spider Reproductive Modes." American Naturalist 129 (1): 47-68 (1987).
- _____. "Spider Webs, Behavior and Evolution, edited by W.A. Shear" (Book review). American Scientist 76 (1): 83-84 (1987).
- _____. "Insect Perception of Spider Orb Webs in Three Light Habitats." Functional Ecology 2 (3): 277-282 (1988).
- D'Croz, Luis. "Survey and Monitoring of Marine Pollution in the Bay of Panama." Co-operation for Environmental Protection in the Pacific. UNEP Regional Seas Reports and Studies, No. 97: 115-123 (1988).
- D'Croz, Luis, Wong, Luis, Justines, Gustavo and Gupta, Mahabir. "Prostaglandins and Related Compounds from the Polychaete Worm Americonuphis reesei Fauchald as Possible Inducers of Gonad Maturation in Penaeid Shrimps." Revista de Biología Tropical 36 (2A): 331-332 (1988).

- De León M., Israel Antonio. El Distrito de San Francisco: La Estructura Agraria y la Producción Agrícola. Tesis, Escuela de Geografía, Facultad de Humanidades (Panamá: Universidad de Panamá, 1989).
- De Nevers, Gregory C. "Bactris divisiacupula and Bactris fuscospina Reexamined." Annals of the Missouri Botanical Garden 75 (3): 1151-1152 (1988).
- De Nevers, Gregory C. and Henderson, Andrew. "A New Calypstrogyne (Palmae: Geonomeae) from Panama." Systematic Botany 13 (3): 428-431 (1988).
- DeVries, Philip J. "The Larval Ant-Organs of Thisbe irenea (Lepidoptera: Riodinidae) and their Effects Upon Attending Ants." Zoological Journal of the Linnean Society 94 (4): 379-393 (1988).
- _____. "Stratification of Fruit-Feeding Nymphalid Butterflies in a Costa Rican Rainforest." Journal of Research on the Lepidoptera 26 (1-4): 98-108 (1988).
- _____. "The Use of Epiphylls as Larval Hostplants by the Neotropical Riodinid Butterfly Sarota gyas." Journal of Natural History 22 (6): 1447-1450 (1988).
- DeVries, Philip J. and Dudley, Robert. "The Lives of Butterflies, by Matthew M. Douglas" (Book review). Journal of the New York Entomological Society 96 (2): 248-251 (1988).
- Dosman, Rosana. Variación Genética de las Poblaciones de Hydrilla verticillata (L.F.) Royle, en el Lago Gatún. Tesis, Escuela de Biología, Facultad de Ciencias Naturales y Exactas. (Panamá, Universidad de Panamá, 1989).
- Dressler, Robert L. and Cook, Summer L. "Conical Silica Bodies in Eria javanica." Lindleyana 3 (4): 224-225 (1988).
- Eberhard, William G. "Aspectos Ecológicos del Manejo Integrado de del Seminario sobre Manejo Integrado de Plagas, San José, Costa Rica. Serie Técnica. Informe Técnico No. 81: 22-23 (1988).
- _____. "Behavioral Flexibility in Orb Web Construction." Journal of Arachnology 16: 295-302 (1988).
- _____. "Combing and Sticky Silk Attachment Behaviour by Cribellate Spiders and Its Taxonomic Implications." Bulletin of the British Arachnological Society 7 (8): 247-251 (1988).
- _____. "Effect of Horizontal vs. Vertical Orientation of Orb Webs on Prey Retention." Bulletin of the British Arachnological Society 7: 247-251 (1988).
- _____. "Group Nesting in Two Species of Euglossa Bees." Journal of the Kansas Entomological Society 61: 406-411 (1989).
- _____. "Paradoxical Post-Genitalic Contact Courtship in the Fly Himantigera nigrifemoralis (Diptera: Stratiomyidae)." Psyche 95: 115-122 (1988).
- _____. "Why Do Plasmids Carry Some Genes and Not Others?" Plasmid. 21: 167-174 (1989).
- Feener Jr., Donald H. "Size-Selective Oviposition in Pseudacteon crawfordi (Diptera: Phoridae), a Parasite of Fire Ants." Annals of the Entomological Society of America 80 (2): 148-151 (1987).
- Feener Jr., Donald H., Lighton, John R.B. and Bartholomew, George A. "Curvilinear Allometry, Energetics and Foraging Ecology: A Comparison of Leaf-Cutting Ants and Army Ants." Functional Ecology 2 (4): 509-520 (1988).
- _____. "Energetics Costs of Foraging: A Comparison of Leaf-Cutting Ants and Army Ants" (Abstract). Proceedings of the XVIII International Congress of Entomology, Vancouver, British Colombia, Canada: 233 (1988).
- Fisher, Brian Lee and Zimmerman, Jess K. "Ant/Orchid Associations in the Barro Colorado Nature Monument, Panama." Lindleyana 3 (1): 12-16 (1988).

- Fleishman, Leo J. "Sensory and Environmental Influences on Display Form in *Anolis aeneus*, a Grass Anole from Panama." Behavioral Ecology and Sociobiology 22 (5): 309-316 (1988).
- _____. "Sensory Influences on Physical Design of a Visual Display." Animal Behaviour 36 (5): 1420-1424 (1989).
- Foster, Robin B. "Tropical America: Still an Unknown Territory." Tropicus 3: 4, 7 (Spring 1988).
- _____. "Vegetation of the Beni." Orion (Summer 1989): 39.
- Foster, Susan A. "Acquisition of a Defended Resource: A Benefit of Group Foraging for the Neotropical Wrasse, *Thalassoma lucasanum*." Environmental Biology of Fishes 19 (3): 215-222 (1987).
- _____. "The Relative Impacts of Grazing by Caribbean Coral Reef Fishes and *Diadema*: Effects of Habitat and Surge." Journal of Experimental Marine Biology and Ecology (1987).
- Fraga, Rosendo M. "Arboles de Nidificación y Tamaño de Colonia en la Oropéndula *Psarocolius montezumae*." Programa y Publicación de Resúmenes, V Reunión Iberoamericana de Conservación y Zoología de Vertebrados: Comunicación a Simposio No. 8 (Montevideo, 1988).
- _____. "Colony Sizes and Nest Trees of Montezuma Oropendolas in Costa Rica." Journal of Field Ornithology 60 (3): 289-420 (1989).
- _____. "Nest Sites and Breeding Success of Baywinged Cowbirds (*Molothrus badius*)." Journal fur Ornithologie 129 (2): 175-184 (1988).
- Franks, Nigel. "Army Ants: A Collective Intelligence." American Scientist 77: 138-145 (1989).
- Fullard, James H. and Belwood, Jacqueline J. "The Echolocation Assemblage: Acoustic Ensembles in a Neotropical Habitat" in Animal Sonar: 639-643. Edited by P.H. Hachigall and P.W.B. Moore (New York: Plenum, 1988).
- García J., Milton N. Biología Reproductiva del Escorpión *Centruroides margaritatus* (Gervais), Buthidae. Tesis, Escuela de Biología, Facultad de Ciencias Naturales y Exactas. Panamá: Universidad de Panamá (1988).
- Garwood, Nancy C. "Seed Bank Dynamics in Tropical Forests." American Journal of Botany 74 (5): 635 (1987).
- Garwood, Nancy C. and Tebbs, Margaret. "An Illustrated Seedling Flora of Panama with Special Emphasis on Barro Colorado Island BCI Panama" (Abstract 17). International Botanical Congress: 455 (1987).
- Glynn, Peter W. "El Niño-Southern Oscillation 1982-1983: Nearshore Population, Community, and Ecosystem Responses." Annual Review of Ecology and Systematics 19: 309-345 (1988).
- Gonzalez, Eric Edgardo. Quantitative Distribution of Soft-Bottom Intertidal Fauna of Some Beaches in Panama City, Panama. A Thesis, Presented to the Department of Biology, for the Degree of Master of Science (Long Beach: California State University, 1988).
- Gradwohl, Judith and Greenberg, Russell. Saving the Tropical Forests. London: Earthscan Publications (1988).
- Graham, Alan. "Studies in Neotropical Paleobotany. V. The Lower Miocene Communities of Panama - The Culebra Formation." Annals of the Missouri Botanical Garden 75 (4): 1440-1466 (1988).

- _____. "Studies in Neotropical Paleobotany. VI. The Lower Miocene Communities of Panama - The Cucaracha Formation. Annals of the Missouri Botanical Garden 75 (4) 1467-1479 (1988).
- Grayum, Michael H. and De Nevers, Gregory C. "New and Rare Understory Palms from the Peninsula de Osa, Costa Rica, and Adjacent Regions." Principes 32 (3): 101-114 (1988).
- Greene, Harry W. "Antipredator Mechanisms in Reptiles" in Biology of the Reptilia: 1-153. Edited by Carl Gans (New York: Alan R. Liss, 1988).
- Greenfield, Michael D. "Interspecific Acoustic Interactions Among Katydid Neoconocephalus: Inhibition-Induced Shifts in Diel Periodicity." Animal Behavior 36 (3): 684-695 (1988).
- Gupta, Mahabir, Solís, Pablo, Miranda, Carmen, Montenegro, Orlando, Martínez, Régulo, Varela, Luis A. and Correa, Mireya. "Actividad Antimicrobiana en Plantas Medicinales de Panamá." Revista Médica de Panamá 13: 79-84 (1988).
- Gutiérrez, Patricia C. "The Ecology and Behavior of the Mangrove Periwinkle, Littorina angulifera." Biotropica 20 (4): 352-356 (1988).
- Guttman, S.I. and Weight, L.A. "Electrophoretic Evidence of Relationships among Quercus (Oaks) of Eastern North America." Canadian Journal of Botany 67: 339-351 (1989).
- Guzmán, Héctor M. "Distribución y Abundancia de Organismos Coralívoros en los Arrecifes Coralinos de la Isla del Caño, Costa Rica. Revista de Biología Tropical 36 (2A): 191-207 (1988).
- _____. "Feeding Activity of the Corallivorous Gastropod Quoyula monodonta (Blanville)." Revista de Biología Tropical 36 (2A): 209-212 (1988).
- _____. "Primer Informe de un Coral Acropórido para el Pacífico Oriental: Crítica a Prahly y Mejía." Revista de Biología Tropical 36 (1): 163-166 (1988).
- Guzmán, Héctor M. and Cortés, Jorge. "Growth Rates of Eight Species of Scleractinian Corals in the Eastern Pacific (Costa Rica)." Bulletin of Marine Science 44 (3): 1186-1194 (1989).
- _____. "Coral Reef Community Structure at Caño Island, Pacific Costa Rica." Marine Ecology 10 (1): 23-41 (1989).
- Guzmán, Héctor M. and Obando, Vilma L. "Diversidad y Abundancia Diaria Estacional del Zooplankton Marino de la Isla del Caño, Costa Rica." Revista de Biología Tropical 36 (1): 139-150 (1988).
- Guzmán, Héctor M. and Robertson, D. Ross. "Responses of a Corallivorous Pufferfish to Mass Mortalities of Eastern Pacific Corals" (Abstract 155). Sixth International Coral Reef Symposium Abstracts: 39 (1988).
- _____. "Population and Feeding Responses of the Corallivorous Pufferfish Arothron meleagris to coral mortality in the Eastern Pacific. Marine Ecology 55 (2-3): 121-131 (1989).
- Herre, Edward Allen. "Coevolution of Reproductive Characteristics in 12 Species of New World Figs and Their Pollinator Wasps." Experientia 45: 637-647 (1989).
- _____. "Theoretical Studies on Sex Ratio Evolution by Samuel Karlin and Sabin Lessard" (Book review). Journal of Genetics 66 (2): 159-161 (1987).
- Hogan, Kevin P. "Photosynthesis in Two Neotropical Palm Species." Functional Ecology 2 (3): 371-377 (1988).
- Holness Carrasco, Daniel. Estimación de la Biomasa y la Productividad de Hydrilla verticillata (L.f.) Royle, en Dos Sitios de la Isla de Barro Colorado. Tesis, Escuela de Biología, Facultad de Ciencias Naturales y Exactas (Panamá: Universidad de Panamá, 1989).

- Howard, Jerome J. "Leafcutting Ant Diet Selection: The Role of Nutrients Water and Secondary Chemistry." Ecology 68 (3): 503-505 (1987).
- _____. "Leafcutting Ant Diet Selection: Relative Influence of Leaf Chemistry and Physical Features." Ecology 69 (1): 250-260 (1988).
- Howard, Jerome J., Cazin Jr., John and Wiemer, David F. "Toxicity of Terpenoid Deterrents to the Leafcutting Ant Atta cephalotes and its Mutualistic Fungus." Journal of Chemical Ecology 14 (1): 59-70 (1988).
- Howden, Henry F. "A New Genus and Four New Species of New World Trichiinae (Coleoptera: Scarabaeidae)." The Coleopterists Bulletin 42 (3): 241-250 (1988).
- Howe, Henry F. "Scatter and Clump-Dispersal and Seedling Demography = Hypothesis and Implications." Oecologia 79 (3): 417-426 (1989).
- Jackson, Jeremy B.C. "Does Ecology Matter?" Book review of Evolution and Escalation: An Ecological History of Life, by Geerat J. Vermeij. Paleobiology 14 (3): 307-312 (1988).
- Jackson, Jeremy B.C., Guzmán, Héctor M. and Weil, Ernesto. "Effects of a Major Oil Spill on Subtidal Reef Corals along the Caribbean Coast of Panama" (Abstract 203). Sixth International Coral Reef Symposium Abstracts: 51 (1988).
- Jackson, J.B.C., Cubit, J.D., Keller, B.D., Batista, V., Burns, K., Caffey, H.M., Caldwell, R.L., Garrity, S.D., Getter, C.D., González, C., Guzmán, H.M., Kaufman, K.W., Knap, A.H., Levings, S.C., Marshall, M.J., Steger, R., Thompson, R.C. and Weil, E. "Ecological Effects of a Major Oil Spill on Panamanian Coastal Marine Communities." Science 243 (6 January, 1989): 37-44.
- Jiménez Muñoz, Yolanda del Carmen y Timm Peralta, Eyda Julieta. Estudio Bacteriológico de Playas de Anidación de la Tortuga Marina Lepidochelys olivacea. Tesis, Escuela de Biología, Facultad de Ciencias Naturales y Exactas (Panamá: Universidad de Panamá, 1989).
- Joly, L.G., Guerra, S., Séptimo, R., Solís, P.N., Correa, Mireya, Gupta, M., Levy, S. and Sandberg, F. "Ethnobotanical Inventory of Medicinal Plants Used by the Guaymí Indians in Western Panama. Part I." Journal of Ethnopharmacology 20: 145-171 (1988).
- Karr, James R. "Birds" in Tropical Rain Forest Ecosystems: 401-416. Edited by H. Lieth and M.J.A. Werner (Amsterdam: Elsevier Science Publishers, 1989).
- Keller, Brian D. "On Evaluating Ecological Effects of a Major Oil Spill on the Caribbean Coast of Panama" in Oil Spill Conference, Proceedings of the 20th Anniversary Conference, February 13-16, 1989: 578 (Washington, D.C.: American Petroleum Institute, Publication 4479, 1989).
- Kilar, John A. and Norris, James N. "Composition, Export, and Import of Drift Vegetation on a Tropical, Plant-Dominated, Fringing-Reef Platform (Caribbean Panama)." Coral Reefs 7 (2): 93-103 (1988).
- Kitajima, Kaoru and Augspurger, Carol K. "Seed and Seedling Ecology of a Monocarpic Tropical Tree, Tachigalia versicolor." Ecology 70 (4): 1102-1114 (1989).
- Kite, Geoffrey C., Fellows, Linda E., Fleet, George W.J., Liu, Paul S., Scofield, Anthony M. and Smith, Neal G. "a - Homonojirimycin [2,6 - Dodepxy - 2,6 - Imono - D - Glycero - L - Gulo - Heptitol] from Omphalea diandra L.: Isolation and Glucosidase Inhibition." Tetrahedron Letters 29 (49): 6483-6486 (1988).
- Knowlton, Nancy. "Coral Bleaching in Panama and Considerations for the Future." Mass Bleaching of Coral Reefs in the Caribbean: A Research Strategy, National Undersea Research Program Research Report 88 (2): 35-37 (1988).

- _____. "A Coral Reef Directory" (Book review). Trends in Ecology and Evolution 4 (10): 305-306 (1989).
- Knowlton, Nancy, Lang, Judith C. and Keller, Brian D. "Predation on Caribbean Staghorn Coral - Threshold Models and Their Implications" (Abstract 220). 6th International Coral Reef Symposium Abstracts: 55 (1988).
- Kursar, Thomas A. "Evaluation of Soil Respiration and soil CO₂ Concentration in a Lowland Moist Forest in Panama." Plant and Soil 113: 21-29 (1989).
- Laguna, Jorge E. "Euraphia eastropacensis (Cirripedia, Chthamalodea), A New Species of Barnacle from the Tropical Eastern Pacific: Morphological and Electrophoretic Comparisons with *Euraphia rhizophorae* (deOliveira) from the Tropical Eastern Atlantic and Molecular Evolutionary Implications." Pacific Science 41 (1-4): 132-140 (1987).
- Lamela Apolayo, Deisa Piedad y Vivero Hamilton, Eric. Macroinvertebrados Asociados a *Hydrilla verticillata* en el Lago Gatún. Tesis, Escuela de Biología, Facultad de Ciencias Naturales y Exactas (Panamá: Universidad de Panamá, 1989).
- Leigh, Jr., Egbert Giles. "The Evolution of Individuality, by Leo W. Buss" (Book review). The Condor 91 (1): 223-225 (1989).
- _____. "Foraging Theory, by D.W. Stephens and J.R. Krebs" (Book review). The Condor 91 (1): 222-223 (1989).
- _____. "Natural Selection in the Wild, by John A. Endler" (Book review). The Condor 90 (1): 279-284 (1988).
- Lessios, Harilaos A. "Effects of Caribbean Echinoids on Coral Recruitment and Survivorship" (Abstract). 6th International Coral Reef Symposium: 62 (1988).
- _____. "Mass Mortality of *Diadema antillarum* in the Caribbean: What Have We Learned?" Annual Review of Ecology and Systematics 19: 371-393 (1988).
- _____. "Population Dynamics of *Diadema antillarum* (Echinodermata: Echinoidea) Following Mass Mortality in Panamá." Marine Biology 99: 515-526 (1988).
- Liesner, Ronald L. and D'Arcy, William G. "Two New Species of Inga Leguminosae from Panama." Annals of the Missouri Botanical Garden 75 (1): 385-388 (1988).
- McKinney, F.K. and Jackson, Jeremy B.C. Bryozoan Evolution (Boston: Unwin Hyman, 1989).
- McMillan, Calvin. "Seed Germination and Seedling Development of *Halophila decipiens* Ostenfeld (Hydrocharitaceae) from Panama." Aquatic Botany 31: 169-176 (1988).
- _____. "The Seed Reserve of *Halophila decipiens* Ostenfeld (Hydrocharitaceae) in Panama." Aquatic Botany 31: 177-182 (1988).
- McMillan, Calvin and Soong, Keryea. "An Annual Cycle Flowering, Fruiting and Seed Reserve for *Halophila decipiens* Ostenfeld (Hydrocharitaceae) in Panama." Aquatic Botany 34: 375-379 (1989).
- McPherson, Gordon. "A New Species of *Vantanea* (Humiriaceae) from Panama." Annals of the Missouri Botanical Garden 75 (3): 1148-1149 (1988).
- _____. "New and Noteworthy Taxa from Panama." Annals of the Missouri Botanical Garden 75 (1): 373-378 (1988).
- May, M.L. and Knoff, K.W. "*Neocordulia campana* Spec. Nov., A New Species of Dragonfly from Panama (Anisoptera: Corduliidae)." Odontologica 17 (1): 33-44 (1988).

- Miller, David L., Leonard, Paul M., Hughes, Robert M., Karr, James R., Moyle, Peter B., Schrader, Lynn H., Thompson, Bruce A., Daniels, Robert A., Fausch, Kurt D., Fitzhugh, Gary A., Gammon, James R., Halliwell, David B., Angermeier, Paul L. and Orth, Donald J. "Regional Applications of an Index of Biotic Integrity for Use in Water Resource Management." Fisheries 13 (5): 12-20 (1988).
- Miller, James S. "A Revised Treatment of Boraginaceae for Panama." Annals of the Missouri Botanical Garden 75 (2): 456-521 (1988).
- Milton, Katharine and Jenness, Robert. "Ascorbic Acid Content of Neotropical Plant Parts Available to Wild Monkeys and Bats." Experientia 43 (3): 339-342 (1987).
- Mitchell, J., Bort, John and Sabella J. "Children's Perceptions of Aging Adults: An Exploration of Differences in Caribbean Panama." Journal of Cross-Cultural Gerontology 2 (4): 297-320 (1987).
- Morin, James G. and Cohen, Anne C. "Two New Luminescent Ostracodes of the Genus *Vargula* (Myodocopida: Cypridinidae) from The San Blas Region of Panama." Journal of Crustacean Biology 8 (4): 620-638 (1988).
- Morton, Eugene S. and Greenberg, Russell. "The Outlook for Migratory Songbirds: "Future Shock" for Birders." American Birds 43 (1): 178-183. (Spring 1989).
- Padilla, Diana K. "Algal Structural Defenses: Form and Calcification in Resistance to Tropical Limpets." Ecology 70 (4): 835-842 (1989).
- Paz S., Nicolás. "Ecología y Aspectos del Comportamiento en *Linothele* sp. (Araneae, Dipluridae)." Journal of Arachnology 16 (1): 5-22 (1988).
- Piperno, Dolores. "The Application of Phytolith Analysis to Paleoethnobotany and Paleoecology in the American Tropics" (Abstract). Annual Meeting of the Society for American Archaeology (1989).
- _____. "Human Paleoecology in the Humid Tropics of Panama" (Abstract). First Joint Archaeological Congress. (Baltimore, Maryland, 1989).
- _____. "Non-Affluent Foragers: Resource Availability, Seasonal Shortages and the Emergence of Agriculture in Panamanian Forests" in Foraging and Farming: The Evolution of Plant Exploitation: 538-554. Edited by D. Harris and G. Hillman (London: Unwin-Hyman, 1989).
- _____. "The Occurrence of Phytoliths in the Reproductive Structures of Tropical Angiosperms and Their Significance in Tropical Palaeoecology, Paleoethnobotany, and Systematics." Review of Palaeobotany and Palynology (1989).
- _____. "The Origins and Development of Food Production in Pacific Panama" in Development of Hunting-Fishing-Gathering Societies on the Central and South America Pacific Coast. Edited by Michael Blake. Proceedings of the Circum Pacific Prehistory Conference (Washington: Washington State University Press, 1989).
- Pratt, Stephen C. "Recruitment and Other Communication Behavior in the Ponerine Ant *Ectatomma ruidum*." Ethology 81: 313-331 (1989).
- Pringle, C.M., Naiman, R.J., Bretschko, G., Karr, James R., Oswood, M.W., Webster J.R., Welcomme, R.L. and Winterbourn, M.J. "Patch Dynamics in Lotic Systems - The Stream as a Mosaic." Journal of the North American Benthological Society 7 (4): 503-524 (1988).
- Ragland, H.C. and Fischer, Eric A. "Internal Fertilization and Male Parental Care in the Scalyhead Sculpin, *Artedius barringtoni*." Copeia 1987 (4): 1059-1062 (1987).
- Rand, A. Stanley, Font, Enrique, Ramos, Diniz, Werner, Dagmar I., and Bock, Brian C. "Home Range in Green Iguana (*Iguana iguana*) in Panama." Copeia 1989 (1): 217-221 (1989).

- Reed, Jonathan R. "Inca Terns in the Bay of Panama During the 1982-1983 El Nino Event." American Birds 42 (2): 172-173 (1988).
- Robertson, D. Ross. "Settlement and Population Dynamics of Abudefduf saxatilis on Patch Reefs in Caribbean Panama" (Abstract 350). Sixth International Coral Reef Symposium Abstracts: 88 (1988).
- _____. "The Surgeonfish Acanthurus lineatus grows hedgerows of Macroalgae." Reef Sites (1989).
- Robertson, D. Ross and Brawn, Jeffrey D. "Variation in Settlement by Caribbean Damselfishes: How Much Due to Variation in Larval Production?" (Abstract 351). Sixth International Coral Reef Symposium Abstracts: 88 (1988).
- Rodda, Gordon, Bock, Brian, Burghardt, Gordon and Rand, A. Stanley. "Techniques for Identifying Lizard Individuals at a Distance Reveal Influences of Handling." Copeia 1988 (4): 905-913 (1988).
- Rose, Gary B., Zellick, Randy D. and Rand, A. Stanley. 1988. "Auditory Processing of Temporal Information in a Neotropical Frog is Independent of Signal Intensity." Ethology 77: 330-336 (1988).
- Roubik, David W. "Biogeography and Taxonomy of Honey Bees, by Friedrich Ruttner" (Book review). American Scientist 77: 82 (1989).
- _____. Ecology and Natural History of Tropical Bees. (New York: Cambridge University Press, 1989) 514 pp.
- Rubínoff, Ira. "Prólogo/Preface" in Descorriendo la Cortina Verde: Evolución de la Biología Tropical En Panamá. Parting the Green Curtain: The Evolution of Tropical Biology in Panama, by G.R. Angehr: iii-iv. Panamá, Smithsonian Tropical Research Institute (Anaconda Press, 1989).
- _____. "Tax Rich Nations, Save the Jungle." International Wildlife 18 (3): 24 (1988).
- _____. "The Smithsonian Tropical Research Institute." Environment 31 (5) (1989).
- Ryan, Michael J. "Constraints and Patterns in the Evolution of Anuran Acoustic Communication" in The Evolution of the Amphibian Auditory System, Chapter Twenty Eight: 637-677. Edited by Bernd Fritsch, Michael J. Ryan, Walter Wilczynski, Thomas E. Hetherington and Wolfgang Walkowiak (New York: John Wiley and Sons, 1988).
- Ryan, Michael J. "Energy, Calling, and Selection." American Zoologist 28: 885-898 (1988).
- Schuup, Eugene W. "Factors Affecting Post-Dispersal Seed Survival in a Tropical Forest." Oecologia 76 (4): 525-530 (1988).
- Schuup, Eugene W., Howe, Henry F., Augspurger, Carol K. and Levey, Douglas J. "Arrival and Survival in Tropical Treefall Gaps." Ecology 70 (3): 562-564.
- Siemens, Alfred H., Hebda, Richard J., Navarrete Hernández, Mario, Piperno, Dolores R., Stein, Julie K. and Zolá Báez, Manuel G. "Evidence for a Cultivar and A Chronology from Patterned Wetlands in Central Veracruz, Mexico." Science 242 (4875): 105-107 (1988).
- Silva F., Jorge. "Martín y Cuervo en Extrañas Interacciones." La Estrella de Panamá (Marzo 14, 1989): B1.
- Smith III, Thomas J., Chan, Hung T., McIvor, Carole C. and Robblee, Michael B. "Comparisons of Seed Predator in Tropical, Tidal Forests from Three Continents." Ecology 70 (1): 146-151 (1989).
- Smythe, Nicholas. "Seed Survival in the Palm Astrocaryum standleyanum: Evidence for Dependence Upon its Seed Dispersers." Biotropica 21 (1): 50-56 (1989).

- Steger, Rick. "Effects of Refuges and Recruitment on Gonodactylid Stomatopods, A Guild of Mobile Prey." Ecology 68 (5): 1520-1533 (1987).
- Sternberg, L. da S.L., Mulkey, S.S. and Wright, S. Joseph. "Ecological Interpretation of Leaf Carbon Isotope Ratios: Influence of Respired Carbon Dioxide." Ecology 70(5): 1317-1324.
- Sweatman, Hugh. "Field Evidence that Settling Coral Reef Fish Larvae Detect Resident Fishes Using Dissolved Chemical Cues." Journal of Experimental Marine Biology and Ecology 124 (4): 163-174 (1988).
- Tanaka, Seiji. "Field Work in Panama, Central America - On Adult Diapause in Stenotarsus rotundus (Endomychidae) - 1." Insectarium 25: 222-231 (1988).
- _____. "Field Work in Panama, Central America - On Adult Diapause in Stenotarsus rotundus (Endomychidae) - 2." Insectarium 25: 256-265 (1988).
- _____. "Field Work in Panama, Central America - On Adult Diapause in Stenotarsus rotundus (Endomychidae) - 3." Insectarium 25: 282-294 (1988).
- _____. "Field Work in Panama, Central America - On Adult Diapause in Stenotarsus rotundus (Endomychidae) - 4." Insectarium 25: 330-338 (1988).
- _____. "Field Work in Panama, Central America - On Adult Diapause in Stenotarsus rotundus (Endomychidae) - 5." Insectarium 25: 356-362 (1988).
- _____. "Tropical Seed Bugs (Ropalidae) Dropping Effects from the Canopy of Forest in Panama." Insectarium 25 (5): 148-153.
- Tanaka, Seiji, Denlinger, David L. and Wolda, Henk. "Seasonal Changes in the Photoperiodic Response Regulating Diapause in a Tropical Beetle, Stenotarsus rotundus." Journal of Insect Physiology 34 (12): 1135-1142 (1988).
- Trainer, Jill M. "Behavioral Associations of Song Types During Aggressive Interactions Among Male Yellow-Rumped Caciques." The Condor 89 (4): 731-738 (1987).
- _____. "Cultural Evolution in Song Dialects of Yellow-Rumped Caciques in Panama." Ethology 80: 190-204 (1989).
- Van der Weff, Henk. "Eight New Species and One New Combination of Neotropical Lauraceae." Annals of the Missouri Botanical Garden 75 (2): 402-419 (1988).
- Vollrath, Fritz. "Spider Growth as an Indicator of Habitat Quality." Bulletin of the British Arachnological Society 7 (7): 217-219 (1988).
- Wcislo, William T., West-Eberhard, Mary Jane and Eberhard, William G. "Natural History and Behavior of a Primitively Social Wasp, Auplopus semialatus, and Its Parasite, Irenangelus eberhardi (Hymenoptera: Pompilidae)." Journal of Insect Behavior 1 (3): 247-260 (1988).
- Weinberg, James R. and Starczak, Victoria R. "Morphological Differences and Low Dispersal Between Local Populations of the Tropical Beach Isopod, Exciolana braziliensis." Bulletin of Marine Science 42 (2): 296-309 (1988).
- Weidenfeld, David A. Ecomorphology and Foraging Behavior of the Yellow Warbler (Dendroica petechia). Ph.D. dissertation, College of Arts and Sciences. The Florida State University (1988).
- Wellington, Gerard M. and Victor, Benjamin C. "Variation in Components of Reproductive Success in an Undersaturated Population of Coral-Reef Damselfish: A Field Perspective." The American Naturalist 131 (4): 588-601 (1988).
- Wells, Kentwood D. "Vocal Communication in a Neotropical Treefrog, Hyla ebraccata: Responses of Males to Graded Aggressive Calls." Copeia 1989 (2): 461-466 (1989).
- West, Lani. "Prey Selection by the Tropical Snail Thais melones: A Study of Interindividual Variation." Ecology 69 (6): 1839-1854 (1988).

- West-Eberhard, Mary Jane. "Kin Recognition in Animals." Evolution 43 (3): 703-705 (1989).
- _____. "Observations of Xenorhynchium nitidulum (Fabricius) Hymenoptera, Eumeninae), A Primitively Social Wasp." Psyche 94 (3-4): 317-323 (1987).
- _____. "Phenotypic Plasticity and "Genetic" Theories of Insect Sociality" in Evolution of Social Behavior and Integrative Levels: 123-133. Edited by E. Tobach and G. Greenberg (Hillsdale, N.J.: Erlbaum Press, 1988).
- _____. "Phenotypic Plasticity and the Origins of Diversity." Annual Review of Ecology and Systematics 20: 249-278 (1989).
- _____. "Scent-Trail Diversion, a Novel Defense Against Ants by Tropical Social Wasps." Biotropica 21 (2) (1989).
- West-Eberhard, Mary Jane and Eberhard, William G. "Sexual and Social Selection and the Species-Specificity of Insect Signals." Proceedings of the XVIII International Congress of Entomology, Vancouver, British Colombia, Canada: 205 (1988).
- Wheeler, Diana E. and Levings, Sally C. "The Impact of the 1983 El Niño Drought on the Litter Arthropods of Barro Colorado Island, Panama," in Advances in Myrmecology, Chapter 19: 309-326. Edited by Trager, James C. New York: E.J. Brill (1988).
- Williams-Linera, Guadalupe. Development of Tropical Forest Edge Vegetation. Ph.D. dissertation, (Gainesville: University of Florida, 1989).
- Wilczynski, Walter and Ryan, Michael J. "Microgeographic Variation in the Acoustic Communication System of the Cricket Frog" (Abstract, 13). 17th Annual Meeting of the Society for Neuroscience, New Orleans, Louisiana, November 16-21, 1987: 869 (1987).
- _____. "The Amphibian Auditory System as a Model for Neurobiology, Behavior, and Evolution" in The Evolution of the Amphibian Auditory System, Chapter One: 3-12. Edited by Bernd Fritsch, Michael J. Ryan, Walter Wilczynski, Thomas E. Hetherington and Wolfgang Walkowiak (New York: John Wiley and Sons, 1988).
- Williams, Norris H. and Whitten, W. Mark. "Stanhopea panamensis, A New Species from Central Panama (Orchidaceae)." Lindleyana 3 (1): 9-11 (1988).
- Windsor, Donald M., Morrison, D.W., Estribí, M.A. and De León, B. "Phenology of Fruit and Leaf Production by 'Strangler' Figs on Barro Colorado Island, Panamá." Experientia 45: 647-653 (1989).
- Wolda, Henk. "Energy Requirements of Tropical Insects During an Adverse Season." Nutritional Ecology of Insects and Environment: 1-9 (1989).
- _____. "Insect Seasonality, Why?" Annual Review of Ecology and Systematics 19: 1-18 (1988).
- Zeh, David W. "Aggression, Density, and Sexual Dimorphism in Chernetid Pseudoscorpions (Arachnida: Pseudoscorpionida)." Evolution 41 (5): 1072-1087 (1987).
- _____. "Sexual Selection" (Book review of Testing the Alternatives, by J.W. Bradbury and M.B. Andersson, eds.). American Scientist 77: 181-182 (1989).
- Zeh, David W. and Zeh, Jeanne A. "Condition-Dependent Sex Ornaments and Field Tests of Sexual-Selection Theory." American Naturalist 132 (3): 454-459 (1988).
- Zeh, David W., Zeh, Jeanne A. and Smith, Robert L. "Ovipositors, Amnions and Eggshell Architecture in the Diversification of Terrestrial Arthropods." The Quarterly Review of Biology 64 (2): 147-168 (1989).

- Zimmerman, Jess K. and Aide, T. Mitchell. "Patterns of Flower and Fruit Production in the Orchid Aspasia principissa Reichb." American Journal of Botany 74 (5): 661 (1987).
- Zimmerman, Jess K., Roubik, David W. and Ackerman, James D. "Asynchronous Phenologies of a Neotropical Orchid and its Euglossine Bee Pollinator." Ecology 70 (4): 1192-1195 (1989).

ANACOSTIA MUSEUM

- Dorsey, William, Delilah W. Pierce, and Peter L. Robinson, Jr.
Inspiration, 1961-1989. Smithsonian Institution Press, 1989.

ARCHIVES OF AMERICAN ART

- Brown, Robert F. "Regional Office Report--New England." Archives of American Art Journal, 27(4); 28(1-3).
- Karlstrom, Paul. "Archives of American Art: The Memory of Art in America." The Newsletter of the American Federation of Arts, 2(2). Summer 1989.
- _____. [Exhibition catalogue] The Spirit in the Stone: The Visionary Art of James W. Washington, Jr. University of Washington Press and Bellevue Art Museum, 1989.
- _____. [Exhibition catalogue] "Introduction." USArt 1989.
- _____. "Regional Office Report--West Coast." Archives of American Art Journal, 17(4); 28(1-3).
- Kirwin, Liza. The Papers of African American Artists. Archives of American Art, Smithsonian Institution, 1989.
- _____. "Regional Office Report--Southeast." Archives of American Art Journal, 27(4); 28(1-3).
- Kirwin, Liza and Margaret Kinzer. "Drawings and Sketchbooks in the Collection of the Archives of American Art." Drawing, (Jan-Feb 1989): 97-102.
- McNaught, William. "Regional Office Report--New York." Archives of American Art Journal, 27(4); 28(1-3).
- Pacini, Marina. "The Philadelphia Arts Documentation Project." Archives of American Art Journal, 27(4):2-4.
- _____. "Who but the Arts Council." Archives of American Art Journal, 27(4):9-23.
- _____. "Regional Office Report--Philadelphia." Archives of American Art Journal, 27(4); 28(1-3).
- Stover, Catherine. "James L. Claghorn, Philadelphia Collector." Archives of American Art Journal, 27(4).

- Beach, Milo C., "Art in Context," Humanities, March 1989.
- _____. "The Mughal Artist." In Making Things in South Asia (Michael Meister, ed.), Philadelphia: University of Pennsylvania Press, 1989.
- Chase, W. Thomas, III. "Lacquer Examination and Treatment at the Freer Gallery of Art: Some Case Histories," in Urushi; Proceedings of the Urushi Study Group, June 10-27, 1985, Tokyo, Getty Conservation Institute, Marina Del Rey, California, 1988.
- _____.; Jett, Paul; Koob, Stephen P.; and Norman, Jane. "The Treatment of a Chinese Red Lacquer Stationery Box." Preprints of the 1988 IIC Conference on Far Eastern Art, London: IIC, 1988.
- _____. and Veloz, Nicolas, "Methods for Cleaning Outdoor Sculptures," Technology and Conservation, 1989.
- Cort, Louise, "The Changing Fortunes of Three Archaic Japanese Textiles," in Cloth and Human Experience. Studies in Ethnographic Inquiry. Washington: Smithsonian Institution Press, 1989.
- _____. "The Role of the Potter in South Asia," in Making Things in South Asia: The Role of Artist and Craftsman. Proceedings of the South Asian Seminar 1985-86, University of Pennsylvania. Philadelphia: University of Pennsylvania Press, 1989.
- _____. "Looking with the Heart," Studio Potter, vol. 17, no. 1 (Winter 1988).
- FitzHugh, Elisabeth West, "Study of Pigments on Selected Paintings from the Vever Collection," in Glenn D. Lowry and Milo C. Beach, An Annotated and Illustrated Checklist of the Vever Collection, Arthur M. Sackler Gallery, Washington, D.C., and University of Washington Press, Seattle and London, 1988, pp. 425-432.
- Fu, Shen C.Y., "Chang Dai-chien's Figure Paintings of Chinese Opera Characters," Hsiung Shih Art Monthly, Taipei, no. 218 (April 1989), 56-61.
- _____. "Discussing the Paintings of Fu Chuang-fu on His 80th Birthday," Hsiung Shih Art Monthly, Taipei, no. 217 (March 1989), 109-118.
- Gunter, Ann C., "Sculptural Dedications at Labraunda," in Architecture and Society in Hecatomnid Caria. Proceedings of a conference in Uppsala and Stockholm, October 1987. Acta Universitatis Upsaliensis. Boreas: Uppsala Studies in Ancient Mediterranean and Near Eastern Civilizations, 1989.
- Jett, Paul, "The Examination and Treatment of Ancient Silver," Papers of the 13th International Symposium of the Conservation and Restoration of Cultural Property. Tokyo: Tokyo National Institute of Cultural Property, 1989.
- _____. "An Example of the Use of Brass in Chinese Lacquer Ware," Archives of Asian Art, 1989.
- Kecskes, Lily, "Ink: A Scholar's Tool and Work of Art," Calligraphy Review, vol. 6, no. 2 (Winter 1988).
- Koob, Stephen, "The Conservation and Restoration of Red-figure Stamps No. 48-30-3," Expedition, Vol. 30, no. 2, 1988, pp. 29-30.
- Lawton, Thomas. "Review of Xu Bangda, Gu shu hua wei e kao ban [Examination and identification of the forging of ancient calligraphy and painting]." Ars Orientalis, XVII (1988).

- Lowry, Glenn D., "The House of Timur," Asian Art II (Spring, 1989).
- _____, with Milo C. Beach, An Illustrated and Annotated Checklist of the Vever Collection, Washington, D.C.: Arthur M. Sackler Gallery; and Seattle and London: University of Washington Press, 1988.
- _____, and Susan Nemazee, A Jeweler's Eye: Islamic Arts of the Book from the Vever Collection. Washington, D.C.: Arthur M. Sackler Gallery, and Seattle, Wash.: University of Washington Press, 1988.
- _____, and Thomas W. Lentz, Timur and the Princely Vision: Persian Art and Culture in the Fifteenth Century. Washington, D.C.: Arthur M. Sackler Gallery, and Los Angeles: Los Angeles County Museum of Art, 1989.
- Nielsen, Kim. A photograph in Visions and Prophecy from the Time-Life Book Series, Mysteries of the Unknown.
- Nishio, Yoshiyuki, "Japanese Natural Pigments," in New Directions of in Paper Conservation: Postprints of the Institute of Paper Conservation tenth annual conference, 1986 (Oxford, England, 1989)
- Snyder, Janet G., "Appendix 10: Study of the Paper of Selected Paintings from the Vever Collection," in Glenn D. Lowry and Milo C. Beach, An Annotated and Illustrated Checklist of the Vever Collection, Arthur M. Sackler Gallery, Washington, D.C., and University of Washington Press, Seattle and London, 1988, pp. 433-440.
- Stuart, Jan. "Bats of Good Fortune," Zoogoer, vol. 18, no. 4, July-August, 1989, p. 19, to celebrate the reopening of the bat cave at the National Zoological Park.
- Winter, John, and Emile Joel, "'Lead White' in Japanese Paintings (II) -- Measurements of Lead-Isotope Ratios," Kobunkazai no Kagaku, vol. 33, 1988, pp. 33-44.
- Yonemura, Ann, "Art and Authority: A Tokugawa Palanquin," Asian Art vol. 2, no. 1 (Winter, 1989).
- _____, "Splendour and Supremacy: Lacquer for the Tokugawa," in The Tokugawa Collection: The Japan of the Shoguns. Montreal, Canada: The Montreal Museums of Fine Arts, 1989.

CONSERVATION ANALYTICAL LABORATORY

- Arah, C.O., D.K. McNamara, H.M. Hand, and M.F. Mecklenburg. "The Correlation Between Adhesive Stress Relaxation and Joint Performance," in Tomorrow's Materials Today, Science of Advanced Materials and Process Engineering Series 34, p. 1434, Society for the Advancement of Materials and Process Engineering, 1989.
- _____. "The Correlation Between Adhesive Stress Relaxation and Joint Performance," SAMPE Journal 25(4)(1989):11-14.
- Arah, C.O., H.M. Hand, D.K. McNamara, and M.F. Mecklenburg, "Techniques for Screening Adhesives for Structural Applications," Journal of Adhesion Science and Technology 3(4)(1989):261.
- Ballard, Mary W., and Virginia Pledger. "Mannequins: A Re-examination," American Institute for Conservation of Historic and Artistic Works, Abstracts of Papers Presented at the Seventeenth Annual Meeting, p. 29, Cincinnati, May 31-June 4, 1989.
- Baker, M.T., D. van der Reyden, and N. Ravenal. "Analysis and Characterization of Some Paper Coatings by FTIR-Microspectroscopy," American Institute for Conservation of Historic and Artistic Works, Abstracts of Papers Presented at the Seventeenth Annual Meeting, p. 54, Cincinnati, May 31-June 4, 1989.
- Bishop, Ronald L., and Hector Neff. "Compositional Data Analysis in Archaeology," in Archaeological Chemistry IV, ed. Ralph O. Allen, pp. 57-86, Advances in Chemistry Series 220, American Chemical Society, Washington DC.
- _____. "Multivariate Analysis of Compositional Data in Archaeology," in Archaeological Chemistry IV, ed. Ralph O. Allen, pp. 576-586, Advances in Chemistry Series 220, American Chemical Society, Washington, D.C., 1989.
- Bishop, R.L., A. Demarest, and R.J. Sharer. "Chemical Analysis and the Interpretation of Late Preclassic Intersite Ceramic Patterns in the Southeast Highlands of Mesoamerica," in New Frontiers in the Archaeology of the Pacific Coast of Southern Mesoamerica, eds. F. Bove and Lynette Heller, pp. 135-146. Arizona State University Anthropological Research Papers, No. 39, 1989.
- Bishop, R.L., V. Canouts, S. De Atley, A. Qoyawayma, and C.W. Aikins. "The Formation of Ceramic Analytical Groups: Hopi Pottery Production and Exchange, A.D. 1300 - 1600," Journal of Field Archaeology 15(1988):317-338.
- Blackman, M. James, Sophie Mery, and Rita Wright. "Production and Exchange of Ceramics on the Oman Peninsula from the Perspective of Hili," Journal of Field Archaeology, 16(1)(1989): 61-78.
- Brostoff Malikayil, Lynn, and Timothy Vitale. "A Study into the Effects of Solvents on Paper," American Institute for Conservation of Historic and Artistic Works, Abstracts of Papers Presented at the Seventeenth Annual Meeting, p. 57, Cincinnati, May 31-June 4, 1989.

- Erhardt, David, and Jia-Sun Tsang. "Oil Painting: History vs. Technology," American Institute for Conservation of Historic and Artistic Works, Abstracts of Papers Presented at the Seventeenth Annual Meeting, p. 38, Cincinnati, May 31-June 4, 1989.
- Erhardt, David. "Relationship of Reaction Rates to Temperature," Abbey Newsletter 13(3)(1989):38-39.
- _____. "Paper Degradation: A Comparison of Industrial and Archival Concerns," in TAPPI Proceedings: 1988 TAPPI Preservation Symposium, pp. 83-91, TAPPI Press, Atlanta, 1988.
- Goodway, Martha, and Robert M. Fisher. "Phosphorus in Low Carbon Iron: Its Beneficial Properties," Historical Metallurgy, 22(1988):21-23.
- Goodway, Martha. "History of Casting," Metals Handbook, 9th edition, volume 15, pp. 15-23, Casting, Metals Park, OH.
- _____. "Materials Choices for the Statue of Liberty," ASM News 20(6)(1989):6.
- _____. "News of Archaeometallurgy," Society for Archaeological Sciences Newsletter 11(2)(1988):5-6.
- _____. "News of Archaeometallurgy," Society for Archaeological Sciences Newsletter 11(3)(1988):6-7.
- _____. "News of Archaeometallurgy," Society for Archaeological Sciences Bulletin 12(1)(1989):6-7.
- _____. "News of Archaeometallurgy," Society for Archaeological Sciences Bulletin 12(2)(1989):9.
- Joel, E.C., J.S. Olin, M.J. Blackman, and I.L. Barnes. "Lead Isotope Studies of Spanish, Spanish-Colonial and Mexican Majolica," in Proceedings of the 26th International Archaeometry Symposium, eds. R.M. Farquhar, R.G.V. Hancock, and L.A. Pavlish, pp. 188-195, University of Toronto, Toronto, May 16-20, 1988.
- Knutson, T., and M. Ballard. "Dyeing Polyester: Disperse Dyes for Textile Conservation Work," in 20th Century Materials, Testing and Textile Conservation, Ninth Symposium, Harpers Ferry Regional Textile Group, pp. 57-74, November, 1988.
- Mathisen, Susan. The Effects of Moth Resistance Agents on the Lightfastness of Natural Dyes, 78 pp., M.A. thesis, Fashion Institute of Technology, 1989.
- McCormick-Goodhart, Mark. "Research on Collodion Glass Plate Negatives: Coating Thickness and FTIR Identification of Varnishes," in Topics in Photographic Preservation, Vol. 3, pp. 135-150, compiler Robin E. Siegel, American Institute for Conservation, Photographic Materials Group (PMG), Washington DC, 1989, Postprints from the Winter meeting in Kansas City, March 3-4, 1989.
- McNamara, D.K., C.O. Arah, H.M. Hand, and M.F. Mecklenburg. "Fracture Toughness Testing of High-Performance Adhesives," in Proceedings of the 1988 ASME Winter Annual Meeting, MD Vol. 6, pp. 111-116, Chicago, November 1988.
- Mecklenburg, M.M., J.A. Joyce, and P. Albrecht. "Separation of Energies in Elastic-Plastic Fracture," in Elastic-Plastic Fracture, Volume II: Non-Linear Fracture Mechanics, ASTM STP 995, eds. J.D. Landes, A. Saxena, and J.G. Merkle, pp.

- 594-612, American Society for Testing and Materials, Philadelphia, 1989.
- Myers, Emlen. [Book review] Artifacts of the Spanish Colonies of Florida and the Caribbean 1500-1800, Volume 1: Ceramics, Glassware and Beads, by Kathleen Deagan, in American Anthropologist 90(3) (1988):697.
- _____. "Ceramic Technologies of Medieval Northern Morocco," in Medieval Archaeology, ed. Charles Redman, pp. 75-95, Medieval and Renaissance Text Service, Binghamton N.Y.
- Neff, Hector. "Origins of Plumbate Pottery Production," in Ancient Trade and Tribute: Economies of the Soconusco Region of Mesoamerica, ed. B. Voorhies, pp. 175-193, University of Utah Press, Provo, 1989.
- _____. "The Effect of Interregional Distribution on Plumbate Pottery Production," in Ancient Trade and Tribute: Economies of the Soconusco Region of Mesoamerica, ed. B. Voorhies, pp. 249-267, University of Utah Press, Provo, 1989.
- Neff, H., R.L. Bishop, and G. Harbottle. "Stylistic and Chemical Variability in Plumbate Pottery: An Interim Report," in New Frontiers in the Archaeology of the Pacific Coast of Southern Mesoamerica, ed. F.J. Bove and Lynette Heller, pp. 209-220, Arizona State University Anthropological Research Papers #39, 1989.
- Neff, H., R.L. Bishop, and E.V. Sayre. "More Observations on the Problem of Tempering in Compositional Studies of Archaeological Ceramics," Journal of Archaeological Science, 16(1989):57-69.
- Neff, H., R.L. Bishop, and D.E. Arnold. "Reconstructing Ceramic Production from Ceramic Compositional Data: An Example from Guatemala," Journal of Field Archaeology, 15(1988):339-348.
- Neff, H., R.L. Bishop, and F.J. Bove, "Compositional Patterning in Ceramics from Pacific Coastal and Highland Guatemala." Archaeomaterials 3(1989):97-109.
- Olin, J.S., and M.J. Blackman. "Compositional Classification of Mexican Majolica Ceramics of the Spanish Colonial Period," in Archaeological Chemistry IV, ed. R. Allen, pp. 87-112, American Chemical Society, Washington DC, 1989.
- Olin, J.S., "Laboratory Profile, Conservation Analytical Laboratory, Smithsonian Institution," Society for Archaeological Sciences Bulletin 12(3) (1989):8-10.
- Tsang, Jia-Sun, and Roland H. Cunningham. "Some Improvements in the Study of Cross-Sections," The American Institute for Conservation of Historic and Artistic Works, Abstracts of Papers Presented at the Seventeenth Annual Meeting, pp. 20-21, Cincinnati OH, May 31-June 4, 1989.
- Tuross, N. "Albumin Preservation in the Taima-taima Mastodon Skeleton," Applied Geochemistry 4(1989):225-259.
- Tuross, N., A.K. Behrensmeyer, E.D. Eanes, L.W. Fisher, and P.E. Hare. "Molecular Preservation and Crystallographic Alterations in a Weathering Sequence of Wildebeest Bones," Applied Geochemistry 4(1989):261-270.
- van der Reyden, D. "Technology and Conservation of a Nineteenth Century Globe," Paper Conservator 12(1988):21-30, Papers

- from the 10th Anniversary Conference, New Directions in Paper Conservation, Oxford, April 14-18, 1986, Part 3.
- van der Reyden, D., M. Mecklenburg, M. Baker, and M. Hamill. "Update on Current Research into Aqueous Light Bleaching at the Conservation Analytical Laboratory," in The Book and Paper Group Annual, Vol. 7, pp. 73-106, December 1988.
- Vitale, Timothy. "Observations On the Theory, Use and Fabrication of the Fritted Glass Bead, Small Suction Disk Device," Paper Conservator 12(1988):47-63, Papers from the 10th Anniversary Conference, New Directions in Paper Conservation, Oxford, April 14-18, 1986, Part 3.
- Vitale, Timothy, and Jane Sugarman. "Observations on the Drying of Paper and Their Applications to Treatment," American Institute for Conservation of Historic and Artistic Works, Abstracts of Papers Presented at the Seventeenth Annual Meeting, p. 61, Cincinnati, May 31-June 4, 1989.
- Winter, John, and Emile Joel. "'Lead White' in Japanese Paintings. II. Measurements of Lead Isotope Ratios," Kobunkazai no Kagaku 33(1988):33-44.
- Yener, K. Aslihan, Hadi Orzbal, Ergun Kaptan, A. Necip Pehlivan, and Martha Goodway. "Kestel: An Early Bronze Age Source of Tin Ore in the Taurus Mountains, Turkey," Science 244(1989):200-203.

COOPER-HEWITT MUSEUM

- Commoner, Lucy and Milton Sondag. "'Purses, Pouches, Pockets,' Curatorial and Conservation Considerations for the Exhibition," Textile Conservation Group Newsletter, Volume XI, No. 4 (March 1989).
- Davidson, Gail. "Richard Nonas," Public Art. Brookville, NY: Hillwood Art Gallery, 1989.
- Davidson, Gail and Elaine Evans Dee. Training the Hand and Eye, American Drawings from the Cooper-Hewitt Museum. Washington, DC: Smithsonian Institution Traveling Exhibition Service, 1989.
- Dee, Elaine Evans. Design into Art, Drawings for Architecture and Ornament (contributor). Peter Fuhring, ed. London: Philip Wilson, 1989.
- McFadden, David Revere. (Introduction.) Courts and Colonies: The William and Mary Style in Holland, England and America, New York: Cooper-Hewitt Museum, distributed by University of Washington Press, 1988.
- _____. (Introduction.) Majolica. Marilyn Karmason and Joan Stack, authors. New York: Harry N. Abrams, Inc., 1989.
- _____. (Introduction.) Robert Ebendorf Retrospective Exhibition, New Paltz: College Art Gallery, State University of New York, The College at New Paltz, 1989.
- _____. Treasures for the Table: Silver from the Chrysler Museum (essays). New York: Hudson Hills Press, in association with the American Federation of the Arts, 1989.

- _____. L'Art de Vivre: Decorative Arts and Design in France 1789-1989 (introduction and editorial; with other authors). New York/Paris: Vendome Press/Flammarion, 1989.
- _____. "L'Art de Vivre" (introduction), special supplement to Connaissance des Arts, 1989.
- _____. "L'Art de Vivre" special supplement guide to exhibition, Vogue Decoration, International Edition, No. 19, Spring 1989.
- _____. "Past and Present: Recent Acquisitions in Ceramics at Cooper-Hewitt Museum, the Smithsonian Institution's National Museum of Design," Ars Ceramica 5, (1988), pp.44-49.
- Moss, Gillian. "Textiles of the American Arts and Crafts Movement," William Morris and The Arts and Crafts Movement, Linda Parry. London: Bestseller Publications Studio Editions, 1989.
- Pilgrim, Dianne H. (Foreword.) L'Art de Vivre: Decorative Arts and Design in France 1789-1989. New York/Paris: Vendome Press/Flammarion, 1989.
- Shinn, Deborah. Courts and Colonies: The William and Mary Style in Holland, England and America (contributions, with other authors). New York: Cooper-Hewitt Museum, distributed by University of Washington Press, 1988.
- Sonday, Milton and Lucy Maitland. "The Asian Embroidery Technique: Detached Looping, Orientations (August 1989), pp. 54-61.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

- Lawrence, Sidney. "Henry Moore in America's Heartland." Landscape Architecture 79, no. 3 (April 1989):78-81.
- Rifkin, Ned. "Robert Moskowitz." Exhibition Catalog. Washington, D.C.: Hirshhorn Museum and Sculpture Garden; and New York: Thames and Hudson. June 1989.
- Weil, Stephen E. "Too Much Art?," ARTnews 88, no. 8 (October 1989):232.
- _____. "Deaccessioning in American Museums: I," Apollo 130, no. 330 (New Series) (August 1989):77-80.
- _____. "Who Owns the Nataraja?," ARTnews 88, no. 5 (May 1989):188.
- _____. "The Ongoing Pursuit of Professional Status," Museum News 67, no. 2 (November/December 1988):30-34.
- _____. "The Proper Business of the Museum: Ideas or Things," Muse 7, no. 1 (Spring/April 1989):28-38.
- _____. "In Pursuit of a Profession: The Status of Museum Work in America," Museum Management Newsletter 2, no. 1, (Spring 1988):2-5.

NATIONAL AIR AND SPACE MUSEUM

Office of the Deputy Director

Lopez, D. S., The National Air and Space Museum: A Visit in Pictures (Washington, D.C.: Smithsonian Institution Press, 1989).

Department of Aeronautics

- Davies, R.E.G., "Antarctica: El Continente Perdido," Revista Aerea 102(4/5).
_____, "The World's Southernmost Airline (Aerovias DAP)," Airliners 2(2) (Summer 1989).
_____, "Chilean Aviation in the Antarctic," Exxon Air World 41(1) (1989).
_____, "Knight to QB4," Airliners 1(3) (Fall 1988).
_____, "At the Sound of the Gong," Airliners 2(1) (Spring 1989).
_____, "The Junkers 52/3m," Skyways (April 1989).
Mikesh, R.C., Flying Dragons: The South Vietnamese Air Force (London: Osprey Publ. Ltd., 1988).
_____, "Grounded — With Good Cause," Air & Space/Smithsonian 4(1) (1989).
_____, "The Unexpected FAC Mission," Chapter 18 in P.D. Chinnery, Life on the Line (1989).
Oakes, C.M., "Women Airforce Service Pilots," Revista Aerea 104 (1) (1988).
Pisano, D.A., "The Age of Streamlining," Air & Space/Smithsonian (Feb/Mar 1989): 86-96.
_____, "When America Became 'Air Conditioned'," FAA World (June 1989).

Department of Space History

- Ceruzzi, P. "Electronics Technology and Computer Science: A Coevolution," Annals of the History of Computing 10(4), 1989.
Collins, M.J., "Preserving Space History," Air & Space Magazine 3(4), 6, (1988).
DeVorkin, D.H., Race to the Stratosphere: Manned Scientific Ballooning in America (New York: Springer Verlag).
_____, "Blast from the Past," Air & Space/Smithsonian 3 (Aug/Sep 1988): 76-84.
_____, "Defending a Dream: The Abbot Years," Bulletin of the American Astronomical Society 20 (1988): 949.
_____, "Henry Norris Russell," Scientific American (May 1989): 126-133.
_____, "Men on the Moon," "Communicating Science," and "Exploration of Space," three invited chapter introductions for O. Gingerich, ed., Album of Science IV: 20th Century Physical Science (New York: Scribners, 1989): 219, 229, 271.
Elliott, D.W., "Apollo 11 Spaceflight," Book of Days, 1989/1990 (Ann Arbor: Pierian Press, 1989).
Herken, G. "The Age of Anxiety," review of John Newhouse's War in the Nuclear Age, Washington Post "Book World", Jan. 1, 1989.
_____, "He Wrote the Book on Arms Control," review of Strobe Talbott's The Master of the Game, New York Newsday "Books", Nov. 11, 1988.

- _____, "Learning to Live with the Bomb," review of McGeorge Bundy's Danger and Survival, New York Newsday "Books," Jan. 15, 1989.
- Lewis, C.S., co-editor, Air and Space History: An Annotated Bibliography (New York: Garland, 1988).
- Needell, A.A., Introduction to the Reprinting of Max Planck's Vorlesungen Ueber die Theorie der Waermestrahlung (1906) and the Morton Masius translation of the Second Edition (1913), Lectures on the Theory of Heat Radiation (1914) (New York: AIP/Tamash, 1989).
- Smith, R.W., "The Selling of Space Astronomy," Astronomy (Jan. 1989): 8.
- _____, Review of History of the Royal Astronomical Society, Vol. 2. 1920-1980 in British Society for the History of Science 22 (1988):88-89.
- _____, Review of Quasars, Redshifts and Controversies in American Scientist 77(1989):126.
- Smith, R.W., and R. Baum, "Neptune's Forgotten Ring," Sky & Telescope 77(1989):6 10.
- Tatarewicz, J.N., Film review of "Made in Space: U.S. Space Station" in Science Books and Films 24/1 (Sept-Oct 1988):59.
- _____, Review of M.A. James, Elites in Conflict: The Antebellum Clash over the Dudley Observatory in Science, Technology & Human Values 13(1&2) (Sept/Oct 1988):210-214.
- _____, Review of R. Schick and J. Van Haften, The View from Space: American Astronaut Photography, 1962-1972 in Science Books and Films 24/3 (Nov/Dec 1988):102.
- Winter, F., "Bringing Up Betsy," Air & Space/Smithsonian (Dec. 1988/Jan. 1989):76-84.

Center for Earth and Planetary Studies

- Craddock, R. A. and Zimbelman, J. R., [Abstract] "Yorktown and Lexington as Viewed by the Viking 1 Lander," Lunar and Planetary Science XX, pp. 193-194. Houston: Lunar and Planetary Institute, 1989.
- Craddock, R. A., Zimbelman, J. R. and Watters, T. R., [Abstract] "Normal Faulting Associated with the Daedalia Impact Basin, Mars," Abstracts for the MEVIV-LPI Workshop: Tectonic Features on Mars, pp. 3-5 (Houston: Lunar and Planetary Institute, 1989).
- Craddock, R. A. and Maxwell, T. A., [Abstract] "Timing of Resurfacing Events in the Amenethes and Tyrrihena Cratered Highlands of Mars," Lunar and Planetary Science XX, pp. 191-192 (Houston: Lunar and Planetary Institute, 1989).
- Dollfus, A., Deschamps, M. and Zimbelman, J. R., [Abstract] "Granulometry of the Martian Surface by Photopolarimetry " Lunar and Planetary Science XX, pp. 250-251 (Houston: Lunar and Planetary Institute, 1989).
- Forsythe, R. D. and Zimbelman, J. R., "Is the Gordii Dorsum Escarpment on Mars an Exhumed Transcurrent Fault?", Nature 336 (1988):143-146.
- Forsythe, R. D. and Zimbelman, J. R., [Abstract] "The Transcurrent Fault Hypothesis for Mars' Gordii Dorsum Escarpment," Abstracts for the MEVIV-LPI Workshop: Tectonic Features on Mars, pp. 6-8 (Houston: Lunar and Planetary Institute, 1989).
- Haynes, C. V. and Maxwell, T. A., [Abstract] "Geoarchaeology of Bagnold's Camp 18, 1930, and Other Late Historic Sites on the Great Selima Sand Sheet, Eastern Sahara," Abstracts 28th International Geological Congress, pp. 2-43 (Washington, D.C., 1989).
- Jacobberger, P. A., [Abstract] "Seasonal Color Changes in the Azaouad Dunefield

- near Tombouctou, Mali," Geological Society of America Abstracts with Programs 20 (1988):148.
- Jacobberger, P. A., Maxwell, T. A., and Hooper, D. M., [Abstract] "Spectral and Morphologic Variations Along the Abu Muharik Dune System (Western Desert of Egypt)," Geological Society of America Abstracts with Programs 20 (1988):36.
- Jacobberger, P. A., [Abstract] "Reflectance Characteristics and Surface Processes in Stabilized Dune Environments." In Remote Sensing of Environment 27(1989):245-253.
- _____, [Book Review] Fluvial Processes in Dryland Rivers, William L. Graf, in Geology 17 (1989):581-582.
- _____, [Abstract] "Morphology and Color Variations Along the Abu Muharik Dune System (Western Desert of Egypt)," Proceedings of the Dunes '89 International Conference (Namibia: 1989).
- _____, [Abstract] "Mapping Abandoned Channels of the Niger River Using Filtered Remotely-sensed Image Data," Proceedings of the Second International Conference on Geomorphology and Geocology (Frankfurt: 1989).
- Maxwell, T. A., [Abstract] "Structural Modification Along the Cratered Terrain Boundary, Eastern Hemisphere of Mars," Abstracts for the MEVTV-LPI Workshop: Early Tectonic and Volcanic Evolution of Mars, pp. 37-38. (Houston: Lunar and Planetary Institute, 1988).
- Maxwell, T. A. and Haynes, C. V., "Large-scale, Low Amplitude Bedforms (Chevrons) in the Selima Sand Sheet, Egypt," Science 243 (1989):1179-1182.
- Maxwell, T. A. and Craddock, R. A., [Abstract] "Mechanisms of Resurfacing in the Amenthes and Tyrrhena Cratered Highlands of Mars," Lunar and Planetary Science XX, pp. 646-647 (Houston: Lunar and Planetary Institute, 1989).
- Maxwell, T. A., [Abstract] "Dune Movement and Sand Transport in the Bahariya Depression, Western Egypt," Remote Sensing and Resource Exploration, pp. 163-192 (Singapore: International Centre for Theoretical Physics, 1989).
- _____, [Abstract] "Orbital Observations of Dune Movement and Temporal Changes in Southwestern Egypt," Abstracts 28th International Geological Congress, pp. 2-391 (Washington, D.C., 1989).
- _____, [Abstract] "Origin of Planetary Wrinkle Ridges - An Overview," Abstracts for the MEVTV-LPI Workshop: Tectonic Features on Mars, pp. 15-17 (Houston: Lunar and Planetary Institute, 1989).
- McBride, K., J. R. Zimbelman and Clifford, S. M., [Abstract] "Potential Indicators of Pyroclastic Activity Near Elysium Mons, Mars," Abstracts for the MEVTV-LPI Workshop: Early Tectonic and Volcanic Evolution of Mars, pp. 39-41 (Houston: Lunar and Planetary Institute, 1988).
- McBride, K., and Zimbelman, J. R., [Abstract] "Evidence of Pyroclastic Activity Near Elysium Mons, Mars," Lunar and Planetary Science XX, p. 651 (Houston: Lunar and Planetary Institute, 1989).
- Mouginis-Mark, P. J., Wilson, L. and Zimbelman, J. R., "Polygenic Eruptions on Alba Patera, Mars," Bulletin of Volcanology 50 (1988):361-379.
- Watters, T. R. and Tuttle, M. J., [Abstract] "Evidence of a Shear System Associated with the Deformed Basalts of the Columbia Plateau: Implications of the Ridged Plains Units on Mars," Geological Society of America Abstracts with Programs 20 (1988):A148.
- Watters, T. R., "Wrinkle Ridge Assemblages on the Terrestrial Planets," Journal of Geophysical Research 93 (1988):10236-10254.
- Watters, T. R. and Chadwick, D. J., [Abstract] "Crosscutting Periodically Spaced First-order Ridges in the Ridged Plains of Hesperia Planum: Another Case for a Buckling Model," Abstracts for the MEVTV-LPI Workshop: Tectonic Features on Mars, pp. 42-44 (Houston: Lunar and Planetary Institute, 1989).
- Watters, T. R. and Tuttle, M. J., [Abstract] "Strike-slip Faulting Associated

- with the Folded Columbia River Basalts: Implications for the Deformed Ridged Plains of Mars," Abstracts for the MEVIV-LPI Workshop: Tectonic Features on Mars, pp. 45-47 (Houston: Lunar and Planetary Institute, 1989).
- Watters, T. R., [Abstract] "Periodically Spaced Wrinkle Ridges in Ridged Plains Units on Mars," Abstracts for the MEVIV-LPI Workshop: Early Tectonic and Volcanic Evolution of Mars, pp. 63-65 (Houston: Lunar and Planetary Institute, 1988).
- _____, [Abstract] "Periodically Spaced Wrinkle Ridges on the Tharsis Plateau of Mars," Fourth International Conference on Mars, Program and Abstracts, pp. 206-207 (Tucson, 1989).
- Wells, G. L. and Zimbelman, J. R., "Extra-Terrestrial Arid Surface Processes," Arid Zone Geomorphology, ed. D. Thomas (Belhaven Press, London, 1989).
- Williams, S. H. and Zimbelman, J. R., [Abstract] "Origin of Debris Flow Material: Ismenius Lacus, Mars," Lunar and Planetary Science XX, pp. 1209-1210 (Houston: Lunar and Planetary Institute, 1988).
- Zimbelman, J. R., [Abstract] "Noachian Faulting in the Memnonia Region of Mars," Abstracts for the MEVIV-LPI Workshop: Early Tectonic and Volcanic Evolution of Mars, pp. 72-74 (Houston: Lunar and Planetary Institute, 1988).
- _____, [Abstract] "Fault Control of Volatile Transport into Mangala Valles, Mars," Geological Society of America Abstracts With Programs 20 (1988):A1 47-A148.
- _____, [Abstract] "Erosional Outliers of Dust Along the Southern Margin of the Tharsis Region of Mars," Transactions American Geophysical Union 69 (1988):1286.
- _____, [Abstract] "Geologic Mapping of Southern Mangala Valles, Mars," Lunar and Planetary Science XX, pp. 1239-1240 (Houston: Lunar and Planetary Institute, 1989).
- _____, [Abstract] "Planetology and Meteoritics," Geotimes 34(2) (1989):72-73.
- _____, [Abstract] "Tectonic Influences on the Development of Mangala Valles, Mars," Transactions of American Geophysical Union 70 (1989):388.
- _____, [Abstract] "Planetary Science Progress Reviewed," Geotimes 34(6) (1989):1-11.
- _____, [Abstract] "Erosional Outliers of Dust Along the Southern Margin of the Tharsis Region, Mars," Lunar and Planetary Science XX, pp. 1237-1238 (Houston: Lunar and Planetary Institute, 1989).
- Zimbelman, J. R., Clifford, S. M. and Williams, S. H., "Concentric Crater Fill on Mars: An Aeolian Alternative to Ice-rich Mass Wasting," Proceedings Lunar and Planetary Science Conference XIX, pp. 397-407 (Cambridge University Press: London, 1989).
- Zimbelman, J. R. and McBride, K. M., [Abstract] "A Possible Pyroclastic Deposit Near Elysium Mons, Mars," Lunar and Planetary Science XX, pp. 1243-1244 (Houston: Lunar and Planetary Institute, 1989).
- Zimbelman, J. R. and Fink, J. H., [Abstract] "Estimates of Rheologic Properties for Flows on the Martian Volcano Olympus Mons," Lunar and Planetary Science XX, pp. 1241-1242 (Houston: Lunar and Planetary Institute, 1989).

Laboratory for Astrophysics

- Goldstein, J., "Direct Measurements of Lower Thermospheric Circulation on Venus Using Doppler-Limited Infrared Spectroscopy," with M. Mumma, D. Zipoy, T. Kostiuik, D. Deming, and F. Expenak, Amer. Astron. Soc. Bull. 20 (1988): 833.
- Smith, H., "L1048: Dramatic Outflow from IRAS 21335+5039," with J. Fischer, D.

Mozurkewich and P. Schwartz, Amer. Astron. Soc. Bull. 20 (1989):1093.

_____, "Infrared Imaging Spectroscopy of Starburst and Seyfert Galaxies," with J. Fischer, in Proceedings of the 22nd Eslab Symposium on Infrared Spectroscopy in Astronomy (1989).

_____, "Far Infrared Absorption Properties of Metallic Meshes," with G.R. Davis, P.A.R. Ade, and J. Fischer, in Proceedings of the Conference on Infrared Physics 4 (Zurich, 1989).

NATIONAL MUSEUM OF AFRICAN ART

Barley, Nigel. Foreheads of the Dead: An Anthropological View of Kalabari Ancestral Screens. Washington, D.C.: Smithsonian Institution Press for the National Museum of African Art, 1988.

Luskey, Judith, and Paula Richardson Fleming, Assistant Director, National Anthropological Archives. The North American Indians in Early Photographs. North American Second Edition (fifth printing), New York: Barnes and Noble; Oxford: Oxford University Press, Phaidon (second printing); Munich: Verlag C.H. Beck (second printing), 1989.

National Museum of African Art. Echoes of the Kalabari: Sculpture by Sokari Douglas Camp. Washington, D.C.: National Museum of African Art, 1988.

Ravenhill, Philip. "Gold of Africa." Archaeology. May/June, 1989.

_____, and Roslyn A. Walker. Kalabari Ancestral Screens: Levels of Meaning [exhibition brochure]. Washington, D.C.: National Museum of African Art, 1988.

Sieber, Roy. Contribution in The Traditional Artist in African Societies (new printing). Ed. W. d'Azeredo. Bloomington: Indiana University Press, 1989.

_____, Co-editor. Traditional Arts in Africa Series. The Mande Blacksmiths: Knowledge, Power, and Art in West Africa by Patrick McNaughton. Bloomington: Indiana University Press, 1989.

NATIONAL MUSEUM OF AMERICAN ART

- Blair, Karen J. The History of Women's Voluntary Associations in America: A Guide to Sources. Boston: G. K. Hall, 1988.
- Boime, Albert. Vincent van Gogh: Die Sternennacht: Die Geschichte des Stoffes und der Stoff der Geschichte. Frankfurt am Main: Fisher Taschenbuch Verlag, 1989.
- _____. "Blacks in Shark-Infested Water: Visual Encodings of Racism in Copley and Homer." Smithsonian Studies in American Art 3, no. 1 (Winter 1989): 18-47.
- _____. "The Chocolate Venus, Tainted Pork, Wine Blight, and the Tariff: Franco-American Stew at the Fair." In Paris 1889: American Artists at the Universal Exposition. New York: Harry N. Abrams, 1989.
- Brown, Elizabeth. Albert Pinkham Ryder. Washington, D.C.: Smithsonian Institution Press, 1989.
- Foresta, Merry. Introduction for The Photography of Invention. Cambridge: MIT Press, 1989.
- Malarcher, Patricia. "Gatherings: Re Criticism." New Work, no. 38 (Summer 1989).
- _____. "Clay Views: Insiders' Perspectives." In CRITS. Cullowhee, N.C.: Western Carolina University, 1989.
- _____. "Of One Cloth: Textiles and the Liturgical Arts." Surface Design Journal 13, no. 3 (Spring 1989).
- _____. "Basketry Considerations," In Basketry Interpretations. Toronto, Ontario: The Museum of Textiles, 1989.
- _____. "Quilting: Present Progressive." In Dreamscapes. Clinton, N.J.: Hunterdon Art Center, 1988.
- Moser, Joann. "The Ideal and the Practical: Some Thoughts on Recent Catalogues Raisonnées." The Tamarind Papers 11 (Fall 1989): 62-68
- _____. "Novija Americka Grafika" (New American Graphics), catalogue essay for exhibition sponsored by the United States Information Service. American Embassy, Belgrade: April 1989.
- Norelli, Martina Roudabush. East Meets West: Chen Chi Watercolors. Columbus, Ga.: The Columbus Museum of Art, 1989.
- _____. "The Watercolors of Antoine-Louis Barye." In Lilien F. Robinson and Edward J. Nygren, Antoine-Louis Barye: The Corcoran Collection. Washington, D.C.: Corcoran Gallery of Art, 1988.
- Panzer, Nora. "Mythology and the Art of Paulanship." Brochure, 1989.
- _____. "A Guide for Teachers: The Patricia and Phillip Frost Collection: American Abstraction 1930-1945." Brochure, 1989.
- Pohl, Frances K. Ben Shahn: New Deal Artist in a Cold War Climate, 1947-1954. Austin: University of Texas, 1989.
- _____. Introduction to Histoire d' E. Catalogue of an Exhibition by the Italian Artist, Mirella Bentivoglio. London: Writer's Forum, 1988.
- _____. "Ben Shahn and Fortune Magazine: Representations of Labor in 1946." Labor's Heritage 1 (January 1989).
- _____. "Report from Palermo: International Conference on Women and Writing." Women's Studies International Forum 12, no. 1 (January 1989).
- _____. Review of Human Rights/Human Wrongs: Art and Social Change, edited by Robert Hobbs and Frederick Woodward. Archives of American Art Journal 28, no. 1 (1988).

- Rand, Harry. Paul Manship. Washington, D.C.: Smithsonian Institution Press, 1989.
- _____. "Friedensreich Hundertwasser in Japan," (bilingual text) Tokyo Metropolitan Teien Art Museum, Iwaki City Museum of Art. Kuashiki, Japan: 1989.
- _____. "Users Used and Abused," Visual Resources 5, no. 2 (1989).
- _____. "Making the Calender." In Masterworks of American Art from the Munson-Williams-Proctor Institute. New York: Abrams, Inc., 1989.
- _____. "Interview." In Documents 1, no. 1 (summer 1989).
- Roark, Elisabeth L. "Courbet's Joueurs de Dames and "La vie de Bohème." Gazette des Beaux-Arts 112 (December 1988).
- Zalesch, Saul E. and Jill M. Hobgood. From Havana to Wall Street: Popular Sheet Music In America, 1898-1929. Newark, Del.: University of Delaware, 1988.

NATIONAL MUSEUM OF AMERICAN HISTORY

Office of the Director

Kennedy, Roger G. Orders from France: The Americans and the French in a Revolutionary World. New York: Knopf, 1989.

Office of Academic Programs

Kulik, Gary. "Comment: The Hero in Industrial History" in The Popular Perception of Industrial History, edited by Robert Weible and Francis R. Walsh. AASLH and the Museum of American Textile History, 1989.
_____. "Designing the Past: History Museum Exhibitions from Peale to the Present" in History Museums in the United States: A Critical Assessment, edited by Warren Leon and Roy Rozensweig. Champaign: University of Illinois Press, 1989.

Department of the History of Science and Technology

Davis, Audrey B, with Richard Glenner, D.D.S. and Gordon Dammann. "The Illinois Dentist in Defence of His Country." Illinois State Dental Journal (February 1989): 10-14.
_____. "Anesthetist and Anesthesiologist: Technology in the Social Context of a Medical and Nursing Speciality." Transactions and Studies of the College of Physicians of Philadelphia 11 (June 1989).
_____. "Medical Museums in Paris." Medical Collector's Association Newsletter (Fall 1989).
Ezell, Edward C. Small Arms Today, 2nd Edition, Stackpole Books, Harrisburg, Pa., 1988.
Green, Rayna. "Kill the Indian and Save the Man: Indian Education in the United States" in Mary Lou Hultgren and Paulette Fairbanks Molin To Lead and to Serve: American Indian Education at Hampton Institute 1878-1923: An Exhibition Catalog. Charlottesville, Va.: Virginia Foundation for the Humanities, 1989, 9-14.
_____. "Culture and Gender in Indian America," Sojourner 15, no. 1 (September 1989): 20-22.
Johnston, Paul F. "Knowledge: The Real Treasure." Sea History 51 (Autumn 1989): 6-7.
_____. "Between the Devil and The Dark Blue Sea: Archaeology and the Council of American Maritime Museums" in Underwater Archaeology Proceedings from the Society for Historical Archaeology Conference, edited by J. Barto Arnold III. Pleasant Hill, Calif.: Society for Historical Archaeology, 1989, 149-150.
_____. "Underwater Archaeology in the United States" in The Baltic Sea: A Cultural Transmitter. Kotka: Anson Oy, 1988, Publication Number 10, Series of the Provincial Museum of Kymenlaakso, 99-117.
_____. "The End of the Age of Sail: Merchant Shipping in the Nineteenth Century," in Ships and Shipwrecks of the Americas, edited by George F. Bass. London: Thames and Hudson, 1988.

- Johnston, Paul F., and Peter J. Fetchko. "The Peabody Museum of Salem" in Maritime America, edited by Peter Neill. New York: Harry Abrams and Balsam Press, 1988.
- Jones, Lu Ann. "Women on the Land" in The Encyclopedia of Southern Culture. Chapel Hill, N.C.: University of North Carolina Press, 1989.
- Jones, Lu Ann, and Nancy Grey Osterud. "Breaking New Ground: Oral History and Agricultural History." Journal of American History (September 1989).
- Kondratas, Ramunas A. "Public Health" in Academic American Encyclopedia, Vol. 15. Danbury, Conn.: Grolier Inc., 1988, 608-609.
- _____. "The Brunonian Influence on the Medical Thought and Practice of Joseph Frank." Medical History, Supplement no. 8 (1988): 75-88.
- Liebold, Peter. "The Development of High-speed Tool Steel." Cutting Tool Engineering (June 1989).
- _____. "The Bicycle and the Development of High Speed Grinding." Cutting Tool Engineering (August 1989).
- _____. "Solomon Nunes Carvalho, Exploration Photographer," in Solomon Nunes Carvalho exhibition catalog. Jewish Historical Society of Baltimore: Baltimore, Md., 1989.
- Lubar, Steven. "The Power of the Niagara: Scientific, Technological, and Cultural Contexts of an Engineering Decision." Technology and Society (Spring 1989).
- Melosh, Barbara. "Speaking of Women: Museums' Representation of Women's History" in History Museums and Historic Sites in the United States, edited by Warren Leon and Roy Rosenweig. Champaign, Ill.: University of Illinois Press, 1989.
- _____. "'Not Merely a Profession.'" American Behavioral Scientist Spring 1989.
- _____. "Nursing Conflicts." Chronicle of Higher Education, November 2, 1988, B2 (excerpt from speech).
- _____. Review of Able-bodied Womanhood by Martha Verbrugge. Isis 80: 1:301 (1989): 108-109.
- Molella, Arthur P. "Inventing the History of Invention," reprinted in Bulletin of Science, Technology, & Society 8, no. 3 (1988): 279-86.
- _____. "The First Generation: Usher, Mumford, and Giedion," in In Context, History and the History of Technology, Essays in Honor of Melvin Kranzberg, edited by Stephen H. Cutcliffe and Robert C. Post. Vol. 1 of Research in Technology Studies. Bethlehem, Pa.: Lehigh University Press, 1988.
- _____. "America's Golden Age," an interview with Thomas P. Hughes. American Heritage of Invention and Technology 5 (Spring/Summer 1989): 18-24.
- _____. "Technology and Society: The Mechanical or the Organic Ideal?" in Proceedings of the Symposium: Technology--For the Benefit of Society? 1989, 20-28.
- Reingold, Nathan. "Physics and Engineering in the United States, 1945-1965, a Study of Pride and Prejudice," The Michelson Era in American Science, 1870-1970 by S. Goldberg and R. Stuewer. New York, 1988.
- Stephens, Carlene. "The Impact of the Telegraph on Public Time in the United States, 1844-1893." IEEE Technology & Society Magazine 8 (March 1989): 4-10.

- _____. "The Most Reliable Time: William Bond, the New England Railroads, and Time Awareness in 19th-Century America." Technology & Culture 30 (January 1989): 1-21.
- _____. "Partners in Time: William Bond & Son of Boston and the Harvard College Observatory." Harvard Library Bulletin 35: 351-384.
- Stine, Jeffrey K. "John Lucian Savage," in Dictionary of American Biography, supplement eight. New York: 1988, 572-73.
- Warner, Deborah. "Commodities for the Classroom: Apparatus for Science and Education in Antebellum America," Annals of Science 45 (1988): 387-97.
- White, John H., Jr. "William d'Alton Mann," in The Encyclopedia of American Business History and Biography: Railroads in the Nineteenth Century. Facts on File, 1988, 244-45.
- _____. "George Mortimer Pullman," in The Encyclopedia of American Business History and Biography: Railroads in the Nineteenth Century, 335-39.
- _____. "Webster Wagner," in The Encyclopedia of American Business History and Biography: Railroads in the Nineteenth Century, 423-24.
- _____. "George Westinghouse," in The Encyclopedia of American Business History and Biography: Railroads in the Nineteenth Century, 430-36.
- _____. "Theodore Tuttle Woodruff," in The Encyclopedia of American Business History and Biography: Railroads in the Nineteenth Century, 438-39.
- _____. Introduction to Vol. I of A Century of Pullman Cars by Ralph Barger. Greenberg Publishing Co., 1988.
- Withuhn, William L. "Salzburgers," in Dictionary of Afro-American Slavery, edited by Randall M. Miller and John D. Smith. Westport, Ct.: Greenwood Press, 1988.
- _____. Introduction to Focus on Rails by John Gruber. Mid-Continent Historical Society, 1989.
- Worthington, William: "Early Risers." American Heritage of Invention & Technology 4, no. 3 (Winter 1989): 40-44.
- _____. "What Is this Man Up To." American Heritage of Invention & Technology 5, no. 1 (Spring 1989): 46-47.

Department of Social and Cultural History

- Adrosko, Rita J. "Textile Machinery Patents," in Catalogue of the Patent Model Exhibit in Japan. 1989.
- Bird, William L., Jr. "A Spate of New Toys Invades America's Living Rooms," Smithsonian Magazine 20 (June 1989): 82-85.
- Crew, Spencer, and James Horton. "Afro-Americans and Museums," in History Museums in the United States.
- Crouch, Tom D. The Bishop's Boys: A Life of Wilbur and Orville Wright. New York: W.W. Norton and Company, 1989.
- _____. A Dream of Wings: Americans and the Airplane, 1875-1905. Washington, D.C.: Smithsonian Institution Press, 1989.
- _____. "The First Season at Kitty Hawk." American Heritage (April 1988).
- _____. "On Wings and Wheels," in Inventors and Discoverers: Changing Our World. Washington, D.C.: National Geographic Society, 1988.

- _____. "Greenhorns," in The American Image. Washington, D.C.: Smithsonian Institution Press, 1989.
- Division of Musical History, Recordings:
 Beethoven Symphonies 1 and 3 - deutsche harmonia mundi.
 Beethoven Op. 18, Smithson Quartet - deutsche harmonia mundi.
 Beethoven Op. 70 Trios - Smithsonian Collection of Recordings.
 Corelli Op. 3 - Smithsonian Collection of Recordings.
 Dvorak Piano Trio, Opus 90, Smithsonian Collection of Recordings.
 Gottschalk Piano Music, Smithsonian Collection of Recordings.
 Hayden Op. 54 Quartets - deutsche harmonia mundi.
 Hayden Op. 77 Quartets - EMI.
 Hayden Op. 103 Quartets - EMI.
 Smetana Piano Trio, Opus 15, Smithsonian Collection of Recordings.
- Hasse, John Edward. "Rudi Blesh," "Hoagy Carmichael," "Knocky Parker," "J. Russel Robinson," "Wally Rose," and "Bob Scobey," in The New Grove Dictionary of Jazz, edited by Barry Kernfeld. London: Macmillan Press Ltd.; New York: Grove's Dictionaries of Music, 1988.
- _____. The Classic Hoagy Carmichael, produced and annotated by the author. Revised edition. London: BBC Records, 1988. Set of recordings (4 LPs, 3 cassettes, or 3 CDs) and book.
- _____. "All-American Ragtime." WETA Magazine (July 1989): 6-8.
- _____. "Duke Ellington and New Orleans" in Duke Ellington and New Orleans, edited by Caroline Richmond. Ascona, Switzerland: Festa New Orleans Music Productions, 1989, 5-7.
- _____. "The Duke Ellington Collection," in Duke Ellington and New Orleans, edited by Caroline Richmond. Ascona, Switzerland: Festa New Orleans Music Productions, 1989, 7-9.
- _____. "Sidney Bechet," in The Encyclopedia of Southern Culture, edited by Charles Reagan Wilson and William Ferris. Chapel Hill: University of North Carolina Press, 1989.
- _____. "Smithsonian Will Preserve and Perpetuate Duke Ellington's Legacy." Jazz Educator's Journal (Fall 1989): 24-27.
- Janssen, Barbara. Technology in Miniature, American Textile Patent Models 1819-1840. Washington, D. C.: Smithsonian Press, 1988.
- Kidwell, Claudia, and Valerie Steele, eds. Men and Women: Dressing the Part. Washington, D.C.: Smithsonian Institution Press, 1989.
- McGovern, Charles. "Media and Culture and History." Reviews in American History (December 1988).
- _____. "Getting the Goods: Consumption, Material Culture and History" The Maryland Historian.
- Mayo, Edith P. "Collecting the Twentieth Century." History News 44 (May-June 1989): 30-32.
- Melder, Keith. "Slaves and Freedmen." The Wilson Quarterly 13 (January 1989).
- Reagon, Bernice, ed. Outreach Theory and Practice.
- _____. "Lining Hymn." Black Music Research Journal: 77-83.
- Roth, Rodris. "Domestic Life: Furniture," in the Catalog of the Patent Model Exhibit in Japan. 1989.
- Rubenstein, Harry R. "Symbols and Images of American Labor: Badges of Pride." Labor's Heritage 1 (April 1989): 36-51.

- _____. "Symbols and Images of American Labor: Dinner Pails and Hard Hats." Labor's Heritage (July 1989).
- Serio, Anne Marie. "Lighting in 19th-Century America," in Catalog of the Patent Model Exhibit in Japan. 1989.
- Smith, Barbara Clark. Review of "We the People," a major permanent exhibition at the Chicago Historical Society. American Historical Review 93, no. 3 (June 1989).
- _____. Contributing scholars providing a collection of documents for In Their Own Words: Creators Great and Small, edited by Constance M. McGovern. Boston: The New England Foundation for the Humanities, 1988.
- Smith, Barbara Clark, and Kathy Peiss. Men and Women: A History of Costume, Gender, and Power. Washington, D.C.: National Museum of American History, 1989.
- Sturm, Gary. Contribution to Shapes of the Baroque: Historical Development of Bowed Stringed Instruments by William Monical. Philadelphia: American Federation of Violin and Bow Makers, 1989.
- Wright, Helena E. "Selling an Image: Views of Lowell 1825-1876," in The Popular Perception of Industrial History. Lanham, Md: AASLH Library, University Press of America, 1989.

National Numismatic Collection

- Clain-Stefanelli, Elvira E. "Coin or Medal? Politics and Numismatics in Walachia in the Early Seventeenth Century," in Festschrift till Lars O. Lagerqvist (Festschrift to Lars O. Lagerqvist). Stockholm: Svenska Numismatiska Foreningen, 1989, 75-85.
- _____. Rome at War as Seen Through Coins. Washington, D.C.: National Numismatic Collection, 1989.
- Doty, R. G. "Alabama currency in Smithsonian holdings," Coin World (March 22, 1989): 42, 46, 48.
- _____. "Cent," "Denarius," "Dime," "Dollar," "Drachma," "Legal Tender," "Mint," "Pine-Tree Shilling," "Shekel," "Yen," and "Yuan," in World Book Encyclopedia, 1989.
- _____. "Coins," in Vol. 1 of International Encyclopedia of Communications. New York and Oxford: Oxford University Press, 1989, 326-31.
- _____. "Pittsburgh enriches paper money history." Coin World (August 9, 1989): 52, 58, 64, 68.
- _____. "Private notes common issue in Arkansas." Coin World (April 5, 1989): 24 36.
- _____. Review of Dictionary of Coin Names by Adrian Room, in Numismatic Chronicle 148 London (1988): 215-20.
- _____. "Smithsonian note collection 'splendid'." Coin World (March 15, 1989): 34.

- _____. Review of Political and Commemorative Pieces Simulating Tradesmen's Tokens, 1770-1802 by R. C. Bell, in Numismatic Chronicle 148 London (1988) 284-86.
- Gilliland, Cory. "John Cook, un enigma." Medaglia 17, no. 24 (1989): 155-68.
- _____. "A Medal from the Alma Mater," in Festschrift till Lars O. Lagerqvist. Stockholm: Svenska Numismatiska Foreningen, 1989, 103-10.
- _____. "New Gold Denominations Debut in 1849." Coin World (April 19, 1989): 1, 26, 34.
- Hebert, Raymond. "The Ayat al Kursi and the Asma al-Husna on a Salghurid amulet." Hamdard Islamicus 11, no. 3 (Autumn 1988): 89-99.
- _____. "Bar Hebraeus on Money." Numismatics International 24, no. 8 (August 1989): 189-91.
- _____. "Barker on money troubles in Ottoman Syria and Egypt." Numismatics International 24, no. 6 (June 1989): 147.
- _____. "A Devotional Medal from Khotan." Numismatics International 22, no. 10 (October 1988): 233-37.
- _____. "A Donation of Dies." Numismatics International 23, no. 5 (May 1989): 117-19.
- _____. "A Donation of Dies II." Numismatics International 23, no. 1 (January 1989): 18-20.
- _____. "A Donation of Dies III." Numismatics International 23, no. 2 (February 1989): 44-45.
- _____. "A Donation of Dies IV." Numismatics International 23, no. 3 (March 1989): 63-64.
- _____. "A Donation of Dies V." Numismatics International 23, no. 4 (April 1989): 94-95.
- _____. "Fynes Moryson on the Ottoman monies of 1617," in A Festschrift Presented to Ibrahim Artuk on the Occasion of the 20th Anniversary of the Turkish Numismatic Society. Istanbul: Turkish Numismatic Society, 1988, 147-52.
- _____. "Moorcroft's and Trebeck's numismatic comments of 1819-1825." Numismatics International 24, no. 6 (June 1989): 142.
- _____. "Pirate money in Dutch New York." Numismatics International 24, no. 6 (June 1989): 148.
- _____. "Pre-Nineteenth Century Acadian Given Names." The Genealogist 15, no. 1 (Winter 1989): 17-18.
- _____. "P'tit Francois Arsenault of Cocagne." The Genealogist 14, no. 4, issue no. 38 (Fall 1988): 173-80.
- _____. Review of Catalogue of the Provincial Coin Cabinet Assam by A. W. Botham. Numismatics International 22, no. 10 (October 1988): 250.
- _____. Review of Les Collections monetaires: VIII. Paleo-monnaies africaines by Josette Rivallain in collaboration with A. Feliz Itoko. Numismatics International 22, no. 11 (November 1988): 275.
- _____. Review of Mittelaltermünzen Ausgewählte Schriften, 1881-1928 by Emil Bahrfeldt. Numismatics International 22, no. 10 (October 1988): 247-48.
- _____. Review of Professor Ajay Mitra Shastri Felicitation Volume, edited by Dr. S. K. Bhatt. Numismatics International 22, no. 11 (November 1988): 274-75.

- _____. Review of Russkie efeimki issledovanie i katalog by I. C. Spasski. Numismatics International 23, no. 2 (February 1989): 50-51.
- _____. Review of The History of Russian Coins (1988), The Millennium of First Russian Coins (1988), and Russian History and Culture of the 10th-20th Centuries in Coins and Medals (1988). Numismatics International 23, no. 3 (March 1989): 71-72.
- _____. Review, "Three New Russian-language Numismatic Books." Numismatics International 23, no. 5 (May 1989): 121-22.
- _____. "Russo-Chinese Gin-Ricksha chit." Journal of the Russian Numismatic Society no. 32 (Autumn 1988): 51.
- _____. "Saints in Metal." Numismatics International 22, no. 12, (December 1988): 281-85.
- _____. "A Samanid Hoard of Nuh I bin Nasr." Numismatics International 23, no. 5 (May 1989): 105-10.
- _____. "San Seriffe and its monies," by Frere Nitouche (pseudonym). Numismatics International 24, no. 7 (July 1989): 160-61.
- _____. "Two rare silver fractional dirhems." Oriental Numismatic Society (July-Aug. 1988).
- _____. "Valentin on the early 18th-century coinage of Ceylon." Numismatics International 24, no. 7 (July 1989): 165.
- _____. "Vidal on al-Hasa and its coins." Numismatics International 24, no. 8 (August 1989): 192-93.
- _____. "Windows on Eternity." The Numismatist 101, no. 12 (December 1988): 2079-83.

National Philatelic Collection

- Bruns, James H. "Alternative Designs for the 1963 6-cent Precancelled Air Mail Postal Card." Postal Stationery 31, no. 1 (January-February 1989): 3-9
- _____. "Benjamin Lipsner and the Air Mail." Stamps 227, no. 9 (May 27, 1989): 1, 36.
 - _____. "Did Someone Throw Them in the River?" Postal Stationery 31, no. 4 (July-August 1989): 114-19.
 - _____. "George S. Batchellor . . . An Eminent American." Stamps 228, no. 7 (August 12, 1989): 12, 17.
 - _____. "Neither snow, nor rain . . . Ben Franklin had built a mail service that helped unify our new nation." Constitution 1, no. 2 (Winter 1989): 25-29.
 - _____. "The Postal Saving Systems, Part 3." Postal Stationery 31, no. 2 (March-April 1989): 49-52.
 - _____. "The Potts Letter Box." The Heliograph 3, no. 1 (Winter 1989): 1-7.
 - _____. "Prominence of the Cityscape . . . Post Office Architecture." The Heliograph 3, no. 3 (Summer 1989): 1-6.
 - _____. "The Scarcity of Panama-Pacific Proofs: Rhetoric or Reality? Part 6." The United States Specialist 60, no. 3 (March 1989): 165-72.
 - _____. "The Scarcity of Panama-Pacific Proofs: Rhetoric or Reality? Part 7." The United States Specialist 60, no. 4 (April 1989): 195-96.
 - _____. "The Schmidt Cameo-like Dummy Die." Postal Stationery 31, no. 3 (May-June, 1989): 66-71.

- . "White Wagon Mail Service." Stamps 227, no. 4 (April 22, 1989): 117, 121.
- Geraci, Joseph J. "Ecuador, A Glimpse at One of the Smithsonian's Specialized Foreign Collections." NPC Newsletter 1, no. 2 (July-September 1989).
- . "First Day Covers--A Working Library." Stamps (September 30, 1989).
- . "French Military Cachets of the 1849 Expedition to Rome." France and Colonies Philatelist 45. no. 2.
- . Reviews of Stanley Gibbons Stamp Catalogue, Part 1, British Commonwealth (1989); Fun and Profit in Stamp Collecting, 5th edition, by Herman Herst, Jr.; Universal Stamping Machine Co., Machines and Postal Markings, 1909-1920 by Bart Billings; Check List of Postage Stamps About Music by A. Herbert Grimsley. Stamps (January 14, 1989).
- . Reviews of Private Printed Franks on U.S. Government Envelopes by Austin P. Haller; Standard Encyclopedia of Doremus Machine Cancells by Frederick Landford; Collecting Stamps for Pleasure and Profit by Barry Krause; and Facit Ortstempelkatalog/Postal History, 1989 by the Swedish FACIT Committee. Stamps (February 11, 1989).
- . Reviews of Self-Sufficiency at All Costs: Confederate Post Office Operations in North Carolina, 1861-1865 by Richard F. Ridgway; A Postcard View of Jewish Life by David Pearlman; and Airmail Antics by Fred Boughner. Stamps (March 11, 1989).
- . Reviews of Stanley Gibbons Great Britain, Volume 5, Queen Elizabeth II Decimal Special Issues, 1st edition (1988); Masonic Philately (Part 5) by Trevor J. Fray; Handbook of British Philately for the Intermediate Collector, Section 16, Coils by Tom Current; Bangladesh Stamps and Postal History by Siddique M. Rahman; and Stanley Gibbons Stamp Catalog, Part II, Scandinavia, 3d edition (1988). Stamps (April 8, 1989).
- . Reviews of The Handbook of Tennis Philately by Lester M. Yerkes; Specialized Catalog of United States First Day Covers, compiled by Leo August and Dr. Gerald H. Strauss; The Congress Book, 1988, Fifty-Fourth American Philatelic Congress, edited by Barbara R. Mueller. Stamps (May 6, 1989).
- . Reviews of Confederate States of America, General Issues Stamp Album by Conrad L. Bush; Stanley Gibbons Stamp Catalogue, Part 2, Austria & Hungary, 4th edition (1988); Stanley Gibbons Collect British Stamps, 40th edition (1988). Stamps (July 1, 1989).
- . Reviews of Opinions V, Philatelic Expertizing--An Inside View, edited by Elizabeth C. Pope; The British Philatelic Federation, 1989 Yearbook and Philatelic Societies Directory, edited by A. Herbert R. Grimsley; Pharmacy in Philately Album by George Griffenhagen; and Who's Who on the Postage Stamps of the World, 1840-1984, A Master Index, Volume 1, Aa-Az by Paul G. Partington. Stamps (September 23, 1989).

Department of Anthropology

- Anderson, Martha G., and Kreamer, Christine Mullen. Wild Spirits, Strong Medicine: African Art and the Wilderness. The Center for African Art, New York. 1989.
- Anton-Pacheco, C.; Rowan, L. C.; Payas, A.; Gumiel, P.; Kingston, M. J. Schmidt, R. G.; Bel-lan, A. "Cartografia de aureolas de metamorfismo de contacto mediante la utilizacion de imagenes Landsat Thematic mapper (TM)." (abs) In Congreso Geologico de Espana, comunicaciones 2 (1988): 249-252.
- Anton-Pacheco, Carmen; Rowan, Lawrence; Gumiel, Pablo; Schmidt, R. G.; Payas, Alba; Brickey, David; Kingston, Marguerite; and Bel-lan, Alejandro. "Multispectral Image Analysis for Mapping the Contact Aureole of a Shallow Pluton, San Nicolas Mine Area, Spain." (abs). In 28th International Geological Congress, Abstracts 1 (1989): 49-50.
- Blakey, Michael L. "Skull Doctors: Intrinsic Social and Political Bias in the History of American Physical Anthropology, with Special Reference to the Work of Ales Hrdlicka." Critique of Anthropology 7 (1987): 7-35.
- _____. "Racism Through the Looking Glass: An Afro-American Perspective." World Archaeological Bulletin 2 (1987): 46-50.
- _____. "Social Policy, Economics, and Demographic Change in Nanticoke-Moor Ethnohistory." American Journal of Physical Anthropology 75 (1988): 493-502.
- _____. "The African-American Professional Association: A Place for Refuge, A Source of Change." Academe September-October. 1989.
- Brown, James A., and Rogers, J. Daniel. "Linking Spiro's Artistic Styles: The Copper Connection." Southeastern Archaeology 8 (1989): 1-8
- Burch, Ernest S., Jr. "Modes of Exchange in Northwest Alaska." In Hunters and Gatherers 2. Property, Power and Ideology. Edited by Tim Ingold, David Riches and James Woodburn pages 95-109. (London and New York: Berg Publishers Ltd.)
- Fischbeck, Helmut J.; Rogers, J. Daniel; Ryan, Stuart R.; and Swenson, Fern E. "Sourcing Ceramics in the Spiro Region: A Preliminary Study Using Proton-Induced X-Ray Emission (PIXE) Analysis." Midcontinental Journal of Archaeology 14 (1)(1989): 3-17.
- Fitzhugh, William W. "Smithsonian Institution." In Arctic Research of the United States 2 (1989): 74-77.
- _____. "Introduction" In Changing Views: Filming the Peoples of the North Pacific Rim. Museum of Natural History. Department of Education, Film Program 4-5 February, 1989.
- _____. "Archaeological Reconnaissance of the Seal Lake Region, Interior Labrador." In Archaeology in Newfoundland and Labrador. Edited by Callum Thomson. Annual Report No. 7, Historic Resources Division, Government of Newfoundland and Labrador. 1989
- _____. "Hamilton Inlet and Cartwright Reconnaissance." In Archaeology in Newfoundland and Labrador, 1986. Edited by Callum Thomson. Annual Report No. 7, Historic Resources Division, Government of Newfoundland and Labrador. 1989.

- Fleming, Paula. The North American Indians in Early Photographs. Fleming and Luskey. Dorsett Press, New York. 1988.
- Fowler, Don D. "Myself in the Water." The Western Photographs of John K. Hiller, 1871-1900. Washington, D. C.: Smithsonian Institution Press. 1989.
- Fowler, Don D.; Hattori, Eugene M.; and Creger, C. Cliff. Summary Report of Archaeological Investigations in Warner Valley, Lake County, Oregon, 1987-1988. University of Nevada, Reno Department of Anthropology Research Reports. 89-1. Reno. 1989.
- Frohlich, Bruno; Kervran, Monik; Carusso, Vincent; and McCormick, Kenneth. "Non-Contacting Terrain Conductivity Measurements at Qala't al-Bahrain, Bahrain. Arabian Gulf." Dilmun: Journal of the Bahrain Historical and Archaeological Society 14 (1989): 74-89. State of Bahrain: Ministry of Information Press.
- Frohlich, Bruno; Ortner, Donald J.; and Al-Khalifa, Haya. "Human Disease in the Ancient Middle East." Dilmun: Journal of the Bahrain Historical and Archaeological Society 14 (1989): 61-73. State of Bahrain: Ministry of Information Press.
- Goddard, Ives. "Stylistic Dialects in Fox Linguistic Change". In Historical Dialectology. Edited by Jacek Fisiak. (1988): 193-209. Berlin: Mouton de Greyter.
- _____. "Pre-Cheyenne *y." In In Honor of Mary Haas: From the Haas Festival Conference on Native American Linguistics. Edited by William Shipley. (1988): 345-360. Berlin: Mouton de Gruyter.
- _____. "Gatschet, Albert Samuel 1832-1907." In History of Indian-White Relations. Edited by Wilcomb E. Washburn. (1988): 646. Handbook of North American Indians Volume 4. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- _____. "La Farge, Oliver Hazard Perry 1901-1963." In History of Indian-White Relations. Edited by Wilcomb E. Washburn. (1988): 658. Handbook of North American Indians, Volume 4. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- _____. "Swanton, John Reed, 1873-1958." In History of Indian-White Relations. Edited by Wilcomb E. Washburn. (1988): 688. Handbook of North American Indians, Volume 4. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- _____. "Zeisberger, David 1721-1808." In History of Indian-White Relations. Edited by Wilcomb E. Washburn. (1988): 698-699. Handbook of North American Indians Volume 4. General Editor, William C. Sturtevant. Washington, D. C.: Smithsonian Institution.
- Goddard, Ives, and Bragdon, Kathleen J. Native Writings in Massachusetts. 2 vol. Memoirs of the American Philosophical Society 185. (1988). Philadelphia: The American Philosophical Society.
- Houchins, Chang-su. "Kisan P'ungsok-to: Sumisonian Pangmulgwan Sojang (Kisan Genre Paintings in the Smithsonian Korean Collections)." Ko Misul (Arts Review), (21)(Spring/Summer 1989): 44-52. Seoul.

- Jungers, William L.; Cole, III, Theodore M.; and Owsley, Douglas W. "Multivariate Analysis of Relative Growth in the Limb Bones of Arikara Indians." Growth, Development and Aging 52 (1988): 103-107.
- Kaeppler, Adrienne L. "Pacific Festivals and the Promotion of Identity, Politics, and Tourism." In Come Mek Me Hol' Yu Han': The Impact of Tourism on Traditional Music. Edited by Adrienne L. Kaeppler and Olive Lewin. (1988): 121-138. Kingston, Jamaica: Jamaica Memory Bank.
- _____. "Introduction." In Come Mek Me Hol' Yu Han': The Impact of Tourism on Traditional Music. Edited by Adrienne L. Kaeppler and Olive Lewin. (1988): xiii-xvi. Kingston, Jamaica: Jamaica Memory Bank.
- _____. Four Entries (Hawaiian "Lei niho palaoa", Fijian "Kali", Marquesan "'U'u" and "Pu". In African, Oceanic, and Indonesian Masterpieces in the Rotterdam Museum of Ethnology. Edited by Suzanne Greub. (1988): 114-121. Basel: Tribal Art Centre.
- _____. Review of Half a Century of Dance Research, by Gertrude Kurath. In Dance Research Journal 20 (1)(1988): 47-48.
- _____. "She Writes the Songs that Make the Whole World Sing." Book and Record Review of "Songs of Love by Tu'imala Kaho". In Matangi Tonga 3 (4)(1988): 37-39.
- _____. "Cook's Feathered Cape." Australian Natural History 22 (12)(1989): 548-550.
- _____. "Dance." In International Encyclopedia of Communications 1 (1989): 450-454. New York and Oxford: Oxford University Press.
- _____. "Museums of the World—Stages for the Study of Ethnohistory." In Museum Studies in Material Culture. Edited by Susan M. Pearce. (1989): 83-96. Leicester, England: Leicester University Press.
- _____. Review of Tongan Music by Richard Moyle. In Ethnomusicology 33 (2)(1989): 354-358.
- Karp, Ivan. The Creativity of Power: Cosmology and Action in African Societies. Edited by William Arens and Ivan Karp. (1989). Washington, D. C.: Smithsonian Institution Press.
- _____. "Introduction." In The Creativity of Power: Cosmology and Action in African Societies. Edited by William Arens and Ivan Karp. (1989): xi-xxix. Washington, D. C.: Smithsonian Institution Press.
- _____. "Power and Capacity in Ritual of Possession." In The Creativity of Power: Cosmology and Action in African Societies. Edited by William Arens and Ivan Karp, (1989): 91-109. Washington, D. C.: Smithsonian Institution Press.
- Kaup, Ann. P. Anthro. Notes. A National Museum of Natural History Newsletter for Teachers 10(3); 11(1); 11(2), 1988-89.
- _____. "The Hopi-Smithsonian Project: Bridging a Gap." Anthro. Notes 10 (3)(Fall 1988): 11-14.
- Killeen, Victoria, and Owsley, Douglas W. "Where are the Soldiers Buried?" Civil War Times Illustrated 27 (10)(1989): 12-20.
- Laughlin, Robert M. "The Living World of the Maya." Orion Nature Quarterly 7 (4)(1988): 31-33.
- _____. "What is a Tzotzil? or What is the Truth of the Matter? or What is the Matter with the Truth?" Res 15 (1)(1988): 133-156.

- Laughlin, Robert M., and Haviland, John B. The Great Tzotzil Dictionary of Santo Domingo Zinacantan. Smithsonian Contributions to Anthropology I, II, III (31) (1988). Washington, D. C.: Smithsonian Institution Press.
- Mann, R. W., and Krakker, J. J. "A Black Skeletal Sample from Washington, D.C. in the Context of Nineteenth-Century Urban Expansion." Tennessee Anthropologist 14 (1) (1989): 1-32.
- Mann, R. W., and Murphy, S. P. "Skeletal Indicators of Physical Stress in the Fort Erie Soldiers: Schmorl's Depressions, Cortical Defects, and Wedged Vertebrae." Northeastern Anthropological Association (1989): 26. (abstract). Montreal.
- Mann, Robert W. "Calcaneus Secundarius: Description of a Common Accessory Ossicle." Journal of the American Podiatric Medical Association 79 (8) (1989): 363-366.
- Mann, Robert W., and Owsley, Douglas W. "Anatomy of Uncorrected Talipes Equinovarus in a Fifteenth-Century American Indian." Journal of the American Podiatric Medical Association 79 (9) (1989): 436-440.
- Meggers, Betty J. "Desenvolvimento da arqueologia brasileira, 1935-1985: uma visao pessoal." Boletim Serie Catalogos 3 (1989): 149-154. Instituto de Arqueologia Brasileira, Rio de Janeiro.
- . "Archaeology: South America." Handbook of Latin American Studies 49 (1989): 51-75. Austin, Texas: University of Texas Press.
- Meggers, Betty J., and Danon, Jacques. "Identification and Implications of a Hiatus in the Archeological Sequence on Marajo Island, Brazil." Journal of the Washington Academy of Sciences 78 (1988): 245-253.
- Meggers, Betty J.; Dias, Ondemar F.; Miller, Eurico Th.; and Perota, Celso. "Implications of Archeological Distributions in Amazonia." Proceedings of a Workshop on Neotropical Distribution Patterns Held 12-16 January 1987 (1988): 275-294. Edited by W. Ronald Heyer and P. Vanzolini. Rio de Janeiro: Brasileira de Ciencia.
- Ortner, D. J. "Paleopathology and the Rheumatic Diseases." In The Antiquity of the Erosive Arthropathies, Conference Proceedings No. 5. Edited by P. Dieppe and Rogers. The Arthritis and Rheumatism Council for Research (1988): 58-61.
- . "Case Histories (Erosive Arthropathy)." The Antiquity of the Erosive Arthropathies, Conference Proceedings No. 5. Edited by P. Dieppe and Rogers. (1988): 48-49.
- Ortner, D. J., and Krakker, James J. Case Report No. 10. Paleopathology Newsletter 61 (1988): 8-9.
- Owsley, Douglas W., and Berryman, Hugh E. "Ethnographic and Archaeological Evidence of Scalping in the Southeastern United States." Reprinted in Mini-Histories: Of Hair, Scalps and Skulls. Edited by H. C. Brehm. Nashville, TN, (1989): 15-42.
- Payas, A.; Schmidt, R. G.; Gumiel, P.; Anton-Pacheco, C.; Romeu, U; Kingston, M. J.; Milton, N. M.; Rowan, L. C. El uso de imagenes Landsat. IM en la exploracion de oro en el Carolina slate belt: (abs.). In Congreso Geologico de Espana, comunicaciones 2 (1988): 261-263.

- Payas, Alba; Schmidt, R. G.; Gumiel, Pablo; Anton-Pacheco, Carmen; Kingston, M. J.; Rowan, L. C.; and Milton, N. M. "Studies of Landsat TM Data Anomalies on Field Soils and Forest Vegetation Associated with Hydrothermal Alteration, Carolina Slate Belt, U.S.A." In 28th International Geological Congress, Abstracts 2 (1989): 581-582.
- Potter, Stephen R. "Early English Effects on Virginia Algonquian Exchange and Tribute in the Tidewater Potomac." In Powhatan's Mantle: Indians in the Colonial Southeast. Edited by Peter H. Wood, Gregory A. Waselkov and M. Thomas Hatley. (1989): 151-172. Lincoln, Nebraska: University of Nebraska Press.
- Rogers, J. Daniel. "Settlement Contexts for Shifting Authority in the Arkansas Basin." In Contributions to Spiro Archaeology: Mound Excavations and Regional Perspectives. Edited by J. Daniel Rogers, Don G. Wyckoff, and Dennis A. Peterson. (1989): 159-176. Oklahoma Archeological Survey, Studies in Oklahoma's Past 16.
- _____. "Context for a Regional Perspective." In Contributions to Spiro Archaeology: Mound Excavations and Regional Perspectives. Edited by J. Daniel Rogers, Don G. Wyckoff, and Dennis A. Peterson. (1989): 113-115. Oklahoma Archeological Survey, Studies in Oklahoma's Past 16.
- _____. Review of Vectors of Death: The Archaeology of European Contact, by Ann F. Ramenofsky. University of New Mexico Press, Albuquerque (1987). American Antiquity 54 (1989): 658-660.
- Rogers, J. Daniel; Wyckoff, Don G.; and Peterson, Dennis A. (Editors). Contributions to Spiro Archaeology: Mound Excavations and Regional Perspectives. Oklahoma Archeological Survey, Studies in Oklahoma's Past 16. 1989.
- Singleton, Theresa A. "Breaking New Ground." Southern Exposure 16(2) (1988a): 18-22.
- Trousdale, William. "A Kushan Scabbard Slide from Afghanistan." Bulletin of the Asia Institute 2 (1988): 25-30.
- Ubelaker, Douglas H. "Porotic Hyperostosis in Prehistoric Ecuador." (Abstract) 12th International Congress of Anthropological and Ethnological Sciences Zagreb, July 24-31, 1988. Collegium Anthropologicum 12 (Supplement) (1988): 34.
- _____. "Postmortem Modification of Human Bones, Lessons from Modern Forensic Cases." (Abstract) 12th International Congress of Anthropological and Ethnological Sciences Zagreb, July 24-31, 1988. Collegium Anthropologicum 12 (Supplement) (1988): 344.
- _____. "Prehistoric Human Biology at La Tolita, Ecuador, A Preliminary Report." Journal of the Washington Academy of Sciences 78 (1)(1988): 23-37.
- _____. "A Preliminary Report of Analysis of Human Remains from Agua Blanca, A Prehistoric Late Integration Site from Coastal Ecuador." Journal of the Washington Academy of Sciences 78 (1)(1988): 17-22.
- _____. "North American Indian Population Size, A.D. 1500 to 1985." American Journal of Physical Anthropology 77 (3)(1988): 289-294.
- _____. "Lost Testimonios de Nuestra Historia Antigua: Estudio de Esqueletos." Hoy, 4 de Septiembre, p. 2C. Quito, Ecuador. 1988.

- Ubelaker, Douglas H. "Restos Humanos Prehistoricos del Sitio Cotocollao, Provincia del Pichincha, Ecuador." Appendix 11, pp. 557-571 in Cotocollao: Una Aldea Formative del Valle de Quito by Marcelo Villalba. Miscelania Antropologica Ecuatoriana, Serie Monografica 2, Museos del Banco Central Del Ecuador: Quito. 1988.
- _____. Human Skeletal Remains. Excavation, Analysis, Interpretation. Second Edition. Washington: Taraxacum. (1989): 172 pages, 164 figures, 31 tables, 7 appendices.
- _____. "J. Lawrence Angel 1915-1986" (obituary). American Antiquity 54 (1)(198): 5-8.
- _____. "The Reburial Issue." Physical Anthropology News 8 (1)(1989): 1-4.
- Ubelaker, Douglas H., and Sperber, Norman D. "Alterations in Human Bones and Teeth as a Result of Restricted Sun Exposure and Contact with Corrosive Agents." Journal of Forensic Sciences 33 (2): 540-548.
- Van Beek, Gus W. The Scholarship of William Foxwell Albright: An Appraisal. Harvard Semitic Monographs No. 33 (1989) Atlanta, Georgia: Scholars Press.
- _____. "The Organization of the Symposium." In The Scholarship of William Foxwell Albright. Harvard Semitic Monographs No. 33 (1989): 3-5. Atlanta, Georgia: Scholars Press.
- _____. "William Foxwell Albright: A Short Biography." In The Scholarship of William Foxwell Albright. Harvard Semitic Monographs No. 33 (1989): 7-15. Atlanta, Georgia: Scholars Press.
- _____. "W. F. Albright's Contribution to Archaeology." In The Scholarship of William Foxwell Albright (1989): 61-73. Atlanta, Georgia: Scholars Press.
- Wright, Rita P. "New Tracks on an Ancient Frontier." In Archaeological Thought in America. Edited by C. C. Lamberg-Karlovsky (1989): 268-279. Cambridge University Press.
- Wright, Rita P.; Beaudry, M.; and Kenoyer, J. M. "Traditional Potters of India." Expedition 29 (3)(1987): 55-63.
- Wright, Rita P.; Blackman, M. J.; and Mery, S. "Production and Distribution of Ceramics from the Perspective of Hili." Journal of Field Archaeology 16 (1)(1989): 61-77.

Department of Botany

- Averett, J. E.; Huang, S.; and Wagner, W. L. "Flavonoid Survey of Oenothera (Onagraceae): sects. Gauropsis, Hartmannia, Kneiffia, Paradoxus, and Xyloplerum." American Journal of Botany. 75 (1988): 476-483.
- Bogner, J., and Nicolson, D. H. "Revision of the South American Genus Gorgonidium Schott (Araceae: Spathicarpeae)." Botanisches Jahrbucher 109 (1988): 529-554.
- Dietrich, W., and Wagner, W. L. "Systematics of Oenothera Section Oenothera Subsection Raimannia and Subsection Nutantigemma (Onagraceae)." Systematic Botany Monographs 24 (1988): 1-91.
- Eyde, R., and Ferguson, K. "The Little Lost Dogwood of Frank Kingdon Ward." Kew Magazine 6 (2)(1989): 74-83.

- Fletcher, A., and Hale, M. E. "New Xanthoparmelia (Lichenized Ascomycotina) from Brazil." Mycotaxon 33 (1988): 279-280.
- Fosberg, F. R. "In the Beginning..." University South Pacific Bulletin 22 (15) (1989): 1-3.
- _____. "Guest Editorial: Interest and Beauty in the World." Environmental Conservation 16 (1989): 14.
- _____. "Society Island Plants. 1. Typha L. (Typhaceae)." Botanical Bulletin Academia Sinica 30 (1989): 219-221.
- _____. "Garbage Dump in the Marshall Islands." Environmental Conservation 16 (1989): 78-79.
- Fosberg, F. R., and Sacht, M.-H. "Three Cultivated Ixoras (Rubiaceae)." Baileya 23 (1989): 74-85.
- _____. "Lectotypification of Ixora coccinea L. (Rubiaceae)." Taxon 38 (1989): 486-489.
- Frame, D.; Wagner, W. L.; Herbst, D. R.; and Sohmer, S. H. "Hawaiian Islands." In Floristic Inventory of Tropical Countries. Edited by D. Campbell and H. D. Hammond. New York: New York Botanical Garden, 1989: 181-186.
- Goldberg, A., and Cirilo, N. S. "Haptanthus, a New Dictyledonous Genus from Honduras." Systematic Botany 14 (1989): 16-19, figs. 1-3.
- Greuter, W.; McNeill, J.; and Nicolson, D. H. "Report on Botanical Nomenclature - Berlin 1987." Englera 9 (1989): 1-228.
- _____. "Regarding Proposals to Amend the International Code of Botanical Nomenclature: Procedures." Taxon 38 (1989): 474-475.
- Hale, M. E. "New Species in the Lichen Genus Xanthoparmelia (Ascomycotina: Parmeliaceae)." Mycotaxon 34 (2) (1989): 541-564.
- _____. "A Monograph of the Lichen Genus Karoowia Hale (Ascomycotina: Parmeliaceae)." Mycotaxon 35 (1) (1989): 177-198.
- _____. "A New Lichen Genus, Psiloparmelia Hale (Ascomycotina: Parmeliaceae)." Mycotaxon 35 (1) (1989): 41-44.
- Hale, M. E., and Cole, M. Lichens of California, California Natural History Guides, 54. Berkeley and Los Angeles: University of California Press, 1988.
- Hanisak, M. D.; Littler, M. M.; and Littler, D. S. "Functional Morphology of the Polymorphic Red Alga Gracilaria tikvahiae." Marine Biology 99 (1988): 157-165.
- Imada, C. T.; Wagner, W. L.; and Herbst, D. R. "Checklist of Native and Naturalized Flowering Plants of Hawai'i." Bishop Museum Occasional Paper 29 (1989).
- Jakupovic, J.; Grenz, M.; Bohlmann, F.; Wasshausen, D. C.; and King, R. M. "Sesquiterpene Lactones from Rolandra fruticosa." Phytochemistry 28 (7) (1989): 1937-1941.
- Jakupovic, J.; Lehman, L.; Bohlmann, F.; King, R. M.; and Robinson, H. "Sesquiterpene Lactones and Other Constituents from Cassinia, Actinobole and Anaxeton Species." Phytochemistry 27 (12) (1988): 3831-3839.
- Jakupovic, J.; Schuster, A.; Bohlmann, F.; Ganzer, U.; King, R. M.; and Robinson, H. "Diterpenes and Other Constituents from Australian Helichrysum and Related Species." Phytochemistry 28 (2) (1989): 543-551.

- Judziewicz, E. J., and Peterson, P. M. "Sporobolus temomairemensis (Poaceae: Eragrostideae), a New Species from Brazil and Surinam." Systematic Botany 14 (1989): 525-528.
- Kvist, L. P., and Skog, L. E. "Columnea incredibilis and Cremosperma filicifolium - Two Remarkable New Gesneriaceae from Western Colombia." Nordic Journal of Botany 8 (3) (1988): 253-257.
- _____. "The genus Cremosperma (Gesneriaceae) in Ecuador." Nordic Journal of Botany 8 (3) (1988): 259-269.
- _____. "Revision of Reldia (Gesneriaceae)." Nordic Journal of Botany 8 (6) (1989): 601-611.
- Lellinger, D. B. "The Ferns and Fern-allies of Costa Rica, Panama, and the Choco (Part 1: Psilotaceae through Dicksoniaceae)." Pteridologia 2A (1989): 1-364.
- Little, E. L., Jr. "Los Pinos Pinoneros de los Estados Unidos: su pasado y su futuro." In Il Simposio Nacional sobre Pinos Pinoneros 6-7-8 de Agosto de 1987. Compiled by M.-F. Passini, D. G. Tovar, T. Equiluz Piedra. Mexico: Centre d'Etudes Mexicaines et Centramericaines, 1988: 21-27.
- Little, E. L., Jr., and Skolmen, R. G. Common Forest Trees of Hawaii (Native and Naturalized). Agriculture Handbook 679. Washington, DC: U. S. Department of Agriculture, 1989.
- Little, E. L., Jr., and Wadsworth, F. H. Common Trees of Puerto Rico and the Virgin Islands. Agriculture Handbook 249. Second printing with supplement and added names. Washington, DC: U. S. Department of Agriculture, 1989.
- Little, E. L., Jr.; Woodbury, R. O.; and Wadsworth, F. H. Arboles de Puerto Rico y las Islas Virgenes, Segundo Volumen. Agriculture Handbook 449-S. Washington, DC: U. S. Department of Agriculture, 1988.
- Littler, D. S.; Littler, M. M.; Bucher, K. E.; and Norris, J. N. Marine plants of the Caribbean, a field guide from Florida to Brazil. Washington, DC: Smithsonian Institution Press, 1989.
- Littler, M. M.; Littler, D. S.; and Brooks, B. L. "An Observational Test of the Relative-dominance Paradigm: Field Notes from Joint USSR-USA Expedition to the Seychelles." Report to the Republic of the Seychelles from the cruise of the R/V Nesmeyanov (1989): 32 pages.
- _____. "A Comparison of Nutrient-limited Productivity in Macroalgae from High Granitic Islands Versus Phosphorus-rich and Phosphorus-poor Coralline Atolls in the Seychelles Archipelago." Report to the Republic of the Seychelles from the cruise of the R/V Nesmeyanov (1989): 33 pages.
- Littler, M. M.; Littler, D. S.; and Lapointe, B. E. "A Comparison of Nutrient and Light-limited Photosynthesis in Psammophytic Versus Epilithic Forms of Halimeda (Caulerpales, Halimedaceae) from the Bahamas." Coral Reefs 6 (1988): 219-225.
- Littler, M. M.; Taylor, P. R.; and Littler, D. S. "Complex Interactions in the Control of Coral Zonation on a Caribbean Reef Flat." Oecologia 80 (1989): 331-340.
- Lorence, D. H.; Wagner, W. L.; and Herbst, D. R. "Plant Taxonomy in the Hawaiian Islands." In Conservation Biology in Hawai'i. Edited by C. P. Stone and D. B. Stone. Cooperative National Park Resources Studies Unit, University of Hawai'i, Honolulu (1989): 43-47.

- MacBryde, O. "Ecuador's Debt-for-Nature Swap." Biological Conservation Newsletter 73 (1989): 1.
- _____. "New Colombian Parks." Threatened Plants Newsletter 29 (1988): 5-6.
- Mill, S. W.; Gowing, D. P.; Herbst, D. R.; and Wagner, W. L. Indexed Bibliography on the Flowering Plants of Hawai'i. Honolulu: University of Hawaii Press and Bishop Museum Press, 1988.
- Miller, J. S., and Nowicke, J. W. "Sectional Placement of Some Problematic Cordia Species (Boraginaceae)." Systematic Botany 14 (1989): 271-280.
- Murray, S. N., and Littler, M. M. "Seaweeds and Seagrasses Floras of Southern California: List for Twenty-one Rocky Intertidal Sites." Bulletin of the Southern California Academy of Science 88 (2)(1989): 72-80.
- Nagarkar, M. B., and Hale, M. E. "New Species in the Lichen Family Thelotremaaceae from Asia (Ascomycotina)." Mycotaxon 35 (2)(1989): 437-447.
- Nicolson, D. H. "History of Aroid Systematics." Aroideana 10 (4)(1988): 25-30.
- Nicolson, D. H.; Suresh, C. R.; and Manilal, K. "An Interpretation of Van Rheedee's 'Hortus Malabaricus'." Regnum Vegetabile 119 (1989): 1-378.
- Nowicke, J. W. "A Palynological Study of Crotonoideae (Euphorbiaceae)." ABSTRACT, International Conference on the Systematics of the Euphorbiaceae. 1989.
- Nowicke, J. W., and Miller, J. S. "Pollen Morphology and the Relationships of Hoplostigmataceae." Taxon 38 (1989): 12-16.
- Paredes, L; Jukapovic, J.; Bohlmann, F.; King, R. M.; and Robinson, H. "p-hydroxyacetophenone Derivatives of the Monotypic Genus Platypodanthera." Phytochemistry 27 (10)(1988): 199-202.
- Park, Y.-S. and Hale, M. E. "Hypotrachyna osseocalba, the Correct Name for Hypotrachyna formosana (Parmeliaceae: Lichenized Ascomycotina)." Taxon 38 (1)(1989): 88.
- Peterson, P. M. "Muhlenbergia majalensis (Poaceae: Eragrostideae), a New Species from Chihuahua, Mexico." Systematic Botany 14 (1989): 316-319.
- _____. "Lemma Micromorphology in the Annual Muhlenbergia (Poaceae)." Southwestern Naturalist 34 (1989): 61-71.
- Peterson, P. M.; Annable, C. R.; and Franceschi, V. R. "Comparative Leaf Anatomy in the Annual Muhlenbergia (Poaceae)." Nordic Journal of Botany 8 (1989): 575-583.
- Reveal, J. L., and Nicolson, D. H. "(947) Proposal to Correct the Typification of 2339 Iresine P. Browne, nom. cons. (Amaranthaceae)." Taxon 38 (1989): 503-505.
- Robinson, H. "Plagiochila rudischusteri, a New Species from the Paria Peninsula of Venezuela." Beiheft zur Nova Hedwigia 90 (1988): 199-202.
- _____. "Studies in the Lepidaploa Complex (Vernonieae: Asteraceae) IV. The New Genus, Lessingianthus." Proceedings of the Biological Society of Washington 101 (4)(1988): 929-951.
- _____. "Studies in the Lepidaploa Complex (Vernonieae: Asteraceae) V. The New Genus Chrysolaena." Proceedings of the Biological Society of Washington 101 (4)(1988): 952-958.

- Robinson, H. "Studies in the Lepidaploea Complex (Vernonieae: Asteraceae) VI. A New Genus, Aynia." Proceedings of the Biological Society of Washington 101 (4) (1988): 959-965.
- _____. "A Revision of the Genus Dresslerothamnus (Asteraceae: Senecioneae)." Systematic Botany 14 (3) (1989): 380-388.
- Robinson, H., and King, R. M. "Studies in the Eupatorieae (Asteraceae) CCXXIV. Three Previously Misplaced South American Species." Phytologia 65 (6) (1989): 487-488.
- Skog, L. E. "Novae Gesneriaceae Neotropicarum II. A New Species of Nautilocalyx from Venezuela." Systematic Botany 14 (3) (1989): 281-283.
- _____. "Coriariaceae." Flora of Ecuador 30 (1988): 3-7.
- Smith, L. B. "New Key to the Genera of the Bromeliaceae." Beitrage zur Biologie der Pflanzen 63 (1988): 403-411.
- _____. "A Giant Dyckia Mystery." Journal of the Bromeliad Society 38 (1988): 248, 249, fig. 5, 6.
- _____. "Another Giant Dyckia Mystery." Journal of the Bromeliad Society. 39 (1989): 206, 207, fig. 7, 8.
- _____. "Julian A. Steyermark." Journal of the Bromeliad Society 39 (1989): 55, 69.
- Smith, L. B.; Downs, R. J.; and Klein, R. M. "Euforbiaceae." Flora Illustrada Catarinense, Monografia Euforbiaceae (1988, 1989): 1-408, figs. 1-50.
- Smith, L. B., and Kress, W. J. "New or Restored Genera of the Bromeliaceae." Phytologia 66 (1989): 70-79.
- Smith, L. B., and Wasshausen, D. C. "Begoniaceae." Flora de Venezuela 4 (1989): 1-78, 101-105.
- Tamayo-Castillo, G.; Jakupovic, J.; Bohlmann, F.; King, R. M.; and Robinson, H. "Ent-clerodane Derivatives from Chromolaena connivens." Phytochemistry 28 (2) (1989): 641-642.
- Villa-Lobos, J. "Biosphere II Project." Biological Conservation Newsletter 72 (1989): 1-2.
- _____. "New Foundation in Paraguay." Threatened Plants Newsletter 20 (1988): 6-7.
- Wagner, W. L. "Reevaluation of Chamaesyce forbesii (Euphorbiaceae)." Bishop Museum Occasional Paper 28 (1988): 71-78.
- Wagner, W. L.; Herbst, D. R.; and Sohmer, S. H. "Contributions to the Flora of Hawai'i II. Begoniaceae-Violaceae and the Monocotyledons." Bishop Museum Occasional Paper 29 (1989).
- Wasshausen, D. C. "New and Interesting Species of Acanthaceae from Peru." Beitrage zur Biologie der Pflanzen 63 (1988): 421-429.
- Wurdack, J. J. "Melastomataceae." In Botany of the Guayana Highland - Part XIII. B. Maguire and Collaborators. Memoirs of the New York Botanical Garden 51 (1989): 102-105.
- Zdero, C.; Bohlmann, F.; King, R. M.; and Robinson, H. "The First 12.8b-germacrolide and other Constituents from Bolivian Stevia Species." Phytochemistry 27 (9) (1988): 2835-2842.
- _____. "Sesquiterpene Lactones and Other Constituents from Australian Helipterum Species." Phytochemistry 28 (2) (1989): 517-526.
- Zdero, C.; Bohlmann, F.; Solomon, J. C.; King, R. M.; and Robinson, H. "Ent-clerodanes and Other Constituents from Bolivian Baccharis Species." Phytochemistry 28 (2) (1989): 531-542.

Department of Entomology

- Baimai, V.; Harbach, R. E.; and Kijchalao, U. "Cytogenetic Evidence for a Fifth Species within the Taxon Anopheles dirus in Thailand." Journal of the American Mosquito Control Association 4 (1988): 333-338.
- Baolin, L.; Shuhaong, J.; and Ward, R. A. "New Mosquitoes in China Added to the Second Supplement of the World Catalog (Diptera: Culicidae)." Mosquito Systematics 21 (1988): 11-15.
- Barnes, J. K., and Knutson, L. V. "86. Family Sciomyzidae." Pp. 566-567 in Evenhuis, N. L. (ed.), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Burns, John M. "Phylogeny and Zoogeography of the Bigger and Better Genus Atalopedes (Hesperiidae)." Journal of the Lepidopterists' Society 43 (1989): 11-32.
- Davis, Donald R. "Foreward" In A. K. Zagulajev (ed.), Fauna USSR, Subfamily Myrmecozelinae, Tineidae, Vol. 4, Academy of Sciences USSR [English translation of Russian (1975)] (1988).
- _____. "Foreward" In V. I. Kuznetsov (ed.). The Lepidoptera Fauna of the USSR and Adjacent Countries, Vol. 56, Academy of Sciences USSR, [English translation of Russian (1973)] (1988).
- _____. "The Prototheoridae, an Indigenous Family of South African Moths [Abstract]." Proceedings of the XVIII International Congress of Entomology (1989): p. 26.
- _____. "The Tineoid Complex: A Review of the Biology, Composition, and Phylogeny of the Most Primitive Ditrysian Moths [Abstract]." Proceedings of the XVIII International Congress of Entomology (1989): p. 79.
- _____. "Book Review. Lepidoptera Anatomy by John L. Eaton." Proceedings of the Entomological Society of Washington 91 (2)(1989): 293-294.
- Delfinado-Baker, M., and Baker, E. W. "A New Mite in Bee-hives: Forellinia faini, n. sp. (Acari: Acaridae)." American Bee Journal 129 (1989): 127-128.
- Delfinado-Baker, M., and Baker, E. W. "Mites (Acari) Associated with Bees (Apidae) in Asia, with Description of a New Species." American Bee Journal 129 (1989): 609-613.
- Dellacasa, G., and Gordon, R. D. "The Type Species of Aphodius Subgenus Platyderides A. Schmidt." Bollettino della Societa Entomologica Italiana 120 (1988): 121-124.
- Drea, Jr., J. J., and Carlson, R. W. "Establishment of Cybocephalus sp. (Coleoptera: Nitidulidae) from Korea on Unaspis euonymi (Hymenoptera: Diaspididae) in the Eastern United States." Proceedings of the Entomological Society of Washington 90 (1988): 307-309.
- Endris, R. G.; Keirans, J. E.; Robbins, R. G.; and Hess, W. R. Ornithodoros (Alectorobius puertoricensis Fox (Acari: Argasidae: Redescription by Scanning Electron Microscopy. Journal of Medical Entomology 26 (3)(1989): 146-154.

- Erwin, Terry L., and Pogue, Michael. "Aggra, Arboreal Beetles of Neotropical Forests: Biogeography and the Forest Refugium Hypothesis (Carabidae)" in Heyer, W. R. and P. E. Vanzolini (Eds.), Neotropical Distribution Patterns: Proceedings of a 1987 Workshop. Proceedings of the Brazilian Academy of Sciences (1989): 161-188.
- Evenhuis, N. L.; Thompson, F. C.; Pont, A. C.; and Pyle, B. L. "Literature Cited." pp. 807-989 in Evenhuis, N. L. (ed.), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Fain, A., and Smiley, Robert L. "A New Cloacarid Mite (Acari: Cloacaridae) From the Lungs of the Great Horned Owl, Bubo virginianus, from the U.S.A." International Journal of Acarology 15 (1989): 111-115.
- Farrell, Brian D., and Erwin, Terry L. "Leaf-beetles (Chrysomelidae) of a Forest Canopy in Amazonian Peru: Synoptic List of Taxa, Seasonality, and Host-affiliations" in Jolivet, P., Petitpierre, P., and T. Hsiao, (Editors), The Biology of the Chrysomelidae (1989): 73-90.
- Ferguson, Douglas C. "New Species and New Nomenclature in the American Acronictinae (Lepidoptera: Noctuidae)." Journal of Research on the Lepidoptera 26 (1988): 201-218.
- Flint, Jr., Oliver S. "Studies of Neotropical Caddisflies, XXXIX: The Genus Smicridea in the Chilean Subregion (Trichoptera: Hydropsychidae)." Smithsonian Contributions to Zoology 472 (1989): 1-45.
- Flint, Jr., Oliver S., and Denning, D. G. "Studies of Neotropical Caddisflies, XL: New Species of Smicridea (Smicridea) from Middle America and the West Indies (Trichoptera: Hydropsychidae)." Proceedings of the Biological Society of Washington 102 (1989): 418-433.
- _____. "Studies of Neotropical Caddisflies XLI: New Species and Records of Austrotinodes (Trichoptera: Psychomyiidae)." Pan-Pacific Entomologist 65 (1989): 108-122.
- Froeschner, R. C. "Family Acanthosomatidae Signoret, 1863." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 1-3.
- _____. "Family Alydidae Amyot and Serville, 1843." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 4-11.
- _____. "Family Aradidae Spinola, 1837." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 29-46.
- Froeschner, R. C., and Henry, T. J. "Family Berytidae Fieber, 1851." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 56-60.

- Froeschner, R. C., and Henry, T. J. "Family Cimicidae Latreille, 1802." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 64-68.
- _____. "Family Coreidae Leach, 1815," In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). 69-92 (1988): 69-92.
- _____. "Family Cydnidae Billberg, 1820." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 119-129.
- _____. "Family Enicocephalidae Stal, 1860." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). pp. (1988): 132-135.
- _____. "Family Leptopodidae Amyot and Serville, 1843." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 166 pp.
- _____. "Family Macroveliidae McKinstry, 1942." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 246 pp.
- _____. "Family Pentatomidae Leach, 1815." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 544-597.
- _____. "Family Phymatidae Laporte, 1832." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 598-604.
- _____. "Family Piesmatidae Spinola Amyot and Serrville, 1843." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 605-607.
- Froeschner, R. C., and Henry, T. J. "Family Polycetenidae Westwood, 1874." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 611-612.
- _____. "Family Reduviidae Latreille, 1807." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 616-651.
- _____. [Note]. In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 671 pp.
- _____. "Family Scutelleridae Leach, 1815." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 684-693.
- _____. "Family Tessaratomidae Stal, 1864." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 694-695.

- Froeschner, R. C., and Henry, T. J. "Family Thaumastocoridae Kirkaldy, 1907." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 696-697.
- _____. "Family Thyreocoridae Amyot and Serville, 1843." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 698-707.
- _____. "Family Tingidae Laporte, 1807." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J., and Froeschner, R. C. (Editors). (1988): 708-733.
- Furniss, M. M.; Ferguson, D. C.; et al. "Taxonomy, Life History, and Ecology of a Mountain Mahogany Defoliator, Stamnodes animata (Pearsall) in Nevada." Fish and Wildlife Research 3 (1988): 1-26.
- Gagné, R. J. "A Polynomial Riley Name in Cecidomyiidae (Diptera) and Implications of Such Names for Cynipidae (Hymenoptera)." Proceedings of the Entomological Society of Washington 90 (1988): 394-395.
- Gagné, R. J. Book Review. "Asa Fitch and the Emergence of American Entomology." Proceedings of the Entomological Society of Washington 9 (1989): 294-295.
- Gagné, R. J. The Plant-feeding Gall Midges of North America. Cornell University Press, Ithaca, N.Y., ix + 355 pp., 4 pls. (1989).
- Gagné, R. J. "12. Family Cecidomyiidae." pp. 152-163 in Evenhuis, N. L. (Editor) Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Gagné, R. J., and Boldt, P. E. "A New Species of Neolasioptera (Diptera: Cecidomyiidae) from Baccharis (Asteraceae) in Southern United States and the Dominican Republic." Proceedings of the Entomological Society of Washington 91 (1989): 169-174.
- Gagné, R. J., and Hatchett, J. H. "Instars of the Hessian Fly (Diptera: Cecidomyiidae)." Annals of the Entomological Society of America 82 (1989): 73-79.
- Gilbert, Lawrence E.; Forrest, Hugh S.; Schultz, Thomas D.; and Harvey, Donald J. "Correlations of Ultrastructure and Pigmentation Suggest How Genes Control Development of Wing Scales of Heliconius Butterflies." Journal of Research on the Lepidoptera 26 (1-4) (1988): 141-160.
- Habeck, D. H.; Bennett, F. D.; and Grissell, E. E. "First Record of Aphytophagous Seed Chalcid from Brazilian Peppertree in Florida." Florida Entomologist 72 (1989): 378-379.
- Harbach, R. E.; Harrison, B. A.; Gad, A. M.; Kenawy, M. A.; and El-Siad, S. "Records and Notes on Mosquitoes (Diptera: Culicidae) Collected in Egypt." Mosquito Systematics 20 (1988): 317-342.
- Harbach, R. E., and Mongkolpanya, K. "Redescription of Culex (Eumelanomyia) richei, with Treatments of the Previously Unknown Life Stages and a Record of its Occurrence in Thailand." Mosquito Systematics 20 (1988): 343-351.

- Hardy, D. E., and Foote, R. H. "66. Family Tephritidae." pp. 502-531 in Evenhuis, N. L. (ed.), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Harvey, Donald J. "Perforated Cupola Organs on Larvae of Euselasiinae (Riodinidae)." Journal of the Lepidopterists' Society 43 (3)(1989): 247-249.
- _____. "Book Review. Catalog of Lycaenidae and Riodinidae Lepidoptera: Rhopalocera by Charles A. Bridges." Journal of the Lepidopterists' Society 43 (3)(1989): 250-251.
- Harvey, Donald J., and John W. Peacock. "New Records of Butterflies from North Andros, Bahamas." Entomological News 100 (2)(1989): 86-88.
- Henry, T. J., and Froeschner, R. C. Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States. E. J. Brill Co., New York, (1988): 958 pp.
- Henry, Thomas J. "Cariniocoris, a New Phyline Plant Bug Genus from the Eastern United States, with a Discussion of Generic Relationships (Heteroptera: Miridae)." Journal of the New York Entomological Society 97 (1989): 87-99.
- Heydon, S. L., and Grissell, E. E. "A Review of Nearctic Merismus Walker and Toxema Walker (Hymenoptera: Chalcidoidea: Pteromalidae)." Proceedings of the Entomological Society of Washington 90 (1988): 310-322.
- Hodges, Elaine R. S. "Scientific Illustration." Journal of Natural Science Illustration 1 (1)(1988): 23.
- _____. Editor. The Guild Handbook of Scientific Illustration, New York, Van Nostrand Reinhold (1989).
- _____. "Scientific Illustration: a Working Relationship Between the Scientist and Artist." BioScience 39 (2)(1989): 104-111.
- Homsher, P. J.; Keirans, J. E.; Robbins, R. G.; Irwin-Pinkley, L.; and Sonenshine, D. E. "Scanning Electron Microscopy of Ticks for Systematic Studies. 4. Structure of Haller's Organ in Eight Species of the Subgenus Sternalixodes of the Genus Ixodes (Acari: Ixodidae)." Journal of Medical Entomology 25 (5)(1988): 348-353.
- Keirans, J. E.: Book Review. "The Ixodid Ticks of Uganda," by J. G. Matthyse and M. H. Colbo. Proceedings of the Entomological Society of Washington 90 (3)(1988): 398-400.
- Keirans, J. E., and Litwak, T. R. "A Pictorial Key to the Adults of Hard Ticks, Family Ixodidae (Ixodida, Ixodoidea), East of the Mississippi River." Journal of Medical Entomology 26 (5)(1989): 435-448.
- Khoo, K. C. and Sabrosky, C. W. "75. Family Stenomicrodidae." p. 551 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Kingsolver, J. M. "Biosystematics of the Genus Merobruchus of Continental North America and the West Indies (Coleoptera: Bruchidae)." Technical Bulletin, U.S. Department of Agriculture, 1744 (1988): 63 pp.
- Kingsolver, J. M.; Gibb, T. J.; and Pfaffenberger, G. S. "Synopsis of the Bruchid Genus Althaeus Bridwell (Coleoptera) With Descriptions of Two New Species." Transactions of the American Entomological Society 115 (1989): 57-82.

- Kingsolver, J. M. "Illustrated Guide to Common Insect Pests in Museums." Section within the book A Guide to Museum Pest Control (1988): 53-81.
- Knutson, L. V. "Plant Diagnostic Problems: Insects and Mites." Plant Protection and Quarantine, Vol. II of Selected Pests and Pathogens of Quarantine Significance Chapter 15, (1988): 219-249.
- Knutson, L. V., and Murphy, W. L. "Systematics: Relevance, Resources, Services, and Management: A Bibliography." Association of Systematics Collections, Special Publication (1)(1988): 56 pp.
- Kulasekera, V. L.; Harrison, B. A.; and Amerasinghe, F. P. "Anopheles (Anopheles) peytoni New Species, the "An. insulaeflorum" Auct. from Sri Lanka (Diptera: Culicidae)." Mosquito Systematics 20 (1988): 302-316.
- Krombein, K. V., and Marsh, P. M. "Carl Frederick William Muesebeck, 1894-1987 [Obituary]." Proceedings of the Entomological Society of Washington 90 (1988): 513-523.
- Lindroth, C. H. "Translation: The Ground Beetles (Carabidae) of Fennoscandia: A Zoogeographic Study". Part II. Maps. Amerind Publishing Co. Pvt. Ltd., New Delhi, India, 271 p. Scientific Editor: J. Adis. Scientific Coordinator: T. L. Erwin (1989).
- Maes, Jean-Michael, and Flint, Jr., Oliver S. "Catalogo de los Trichopteros de Nicaragua." Revista Nicaraguense de Entomologia 2 (1988): 1-11.
- Maier, Chris T., and Davis, Donald R. "Host and Distributional Records of Lithocolletine Gracillariidae (Lepidoptera) in Southern New England, with Comparison of Host Specificity and Utilization in Selected Temperate Regions." Miscellaneous Publications of the Entomological Society of America (70) (1989): 1-23, Figs. 1-51.
- Marsh, P. M. "Revision of the Tribe Odontobraconini in the Western Hemisphere (Hymenoptera: Braconidae: Doryctinae)." Systematic Entomology 13 (1988): 443-464.
- _____. "Notes on the Genus Hybrizon in North America (Hymenoptera: Paxylomatidae)." Proceedings of the Entomological Society of Washington 91 (1989): 29-34.
- _____. "Notes on Braconidae (Hymenoptera) Associated With Jojoba (Simmondsia chinensis) and Descriptions of New Species." Pan-Pacific Entomologist 65 (1989): 58-67.
- Mathis, Wayne N. "Beach flies of the Republic of Seychelles (Diptera: Canacidae)." Bulletin of the Washington Biological Society 8 (1988): 22-29.
- _____. "53. Family Cypselosomatidae." In Catalog of Australasian and Oceanian Diptera, N. L. Evenhuis, Editor. E. J. Brill and B. P. Bishop Museum Special Publication 86 (1989): 463.
- _____. "56. Family Pseudopomyzidae." In Catalog of Australasian and Oceanian Diptera, N. L. Evenhuis, Editor. E. J. Brill and B. P. Bishop Museum Special Publication 86 (1989): 470.
- _____. "84. Family Coelopidae." In Catalog of Australasian and Oceanian Diptera, N. L. Evenhuis, Editor. E. J. Brill and B. P. Bishop Museum Special Publication 86 (1989): 563-564.
- _____. "99. Family Ephydriidae." In Catalog of Australasian and Oceanian Diptera, N. L. Evenhuis, Editor. E. J. Brill and B. P. Bishop Museum Special Publication 86 (1989): 639-649.

- Mathis, Wayne N. "103. Family Canacidae." In Catalog of Australasian and Oceanian Diptera, N. L. Evenhuis, Editor. E. J. Brill and B. P. Bishop Museum Special Publication 86 (1989): 669-670.
- Mathis, Wayne N., and Sasakawa, M. "102. Family Tethinidae." In Catalog of Australasian and Oceanian Diptera, N. L. Evenhuis, Editor. E. J. Brill and B. P. Bishop Museum Special Publication 86 (1989): 667-668.
- Mathis, Wayne N., and Zuyin, Jin. "A Review of the Asian Species of the Genus Lamproscatella Hendel (Diptera: Ephydriidae)." Proceedings of the Biological Society of Washington 101 (3) (1988): 540-548.
- _____. "A Review of the Asian Species of the Genus Polytrichophora Cresson (Diptera: Ephydriidae)." Proceedings of the Biological Society of Washington 102 (2) (1989): 434-446.
- McGinley, Ronald J. "A Catalog and Review of Immature Apoidea (Hymenoptera)." Smithsonian Contributions to Zoology (494) (1989): 24 pp.
- Menke, A. "Pison in the New World: A Revision (Hymenoptera: Sphecidae: Trypoxylina)." Contributions of the American Entomological Institute 24 (1988): 171 pages.
- Menke, A. "Arpactophilus Reassessed, with Three Bizarre New Species from New Guinea (Hymenoptera: Sphecidae: Pempredoninae)." Invertebrate Taxonomy 2 (1989): 737-747.
- Morris, G. K.; Klimas, D. E.; and Nickle, D. A. "Acoustic Signals and Systematics of False-leaf Katydid from Ecuador (Orthoptera: Tettigoniidae: Pseudophyllinae)." Transactions of the American Entomological Society 114 (1989): 215-264.
- Nakahara, S. "Generic Reassignments of North American Species Currently Assigned to the Genus Sericothrips Haliday (Thysanoptera: Thripidae)." Proceedings of the Entomological Society of Washington 90 (1988): 480-483.
- _____. "A New Synonym and Revised Status in Apterothrips (Thysanoptera: Thripidae)." Proceedings of the Entomological Society of Washington 90 (1988): 508-509.
- _____. "A new species of Aleurotulus (Homoptera: Aleyrodidae)." Proceedings of the Entomological Society of Washington 91 (1989): 436-440.
- Nakahara, S., and Hilburn, D. J. "Annotated Checklist of the Thysanoptera of Bermuda." Journal of the New York Entomological Society 97 (1989): 251-260.
- _____. "Annotated Checklist of the Whiteflies (Homoptera: Aleyrodidae) of Bermuda." Journal of the New York Entomological Society 97 (1989): 262-264.
- Nickle, D. A. "Singing in the Rain Forest: The Katydid of the Peruvian Amazon." Orion Nature Quarterly 7 (1989): 42-47.
- Nickle, D. A., and Collins, M. S. "Key to the Kalotermitidae of Eastern United States with a New Neotermes from Florida (Isoptera)." Proceedings of the Entomological Society of Washington 91 (1989): 269-285.
- Norrbom, A. L. "The Status of Urophora acuticornis and Urophora sabroskyi (Diptera: Tephritidae)." Entomological News 100 (1989): 59-66.

- Norrbom, A. L., and Marshall, S. A. "New Species and Phylogenetic Analysis of Lotophila Lioy (Diptera: Sphaeroceridae)." Proceedings of the Entomological Society of Ontario 119 (1988): 17-33.
- Norrbom, A. L.; Ming, Y.; and Hernandez-Ortiz, V. "A Revision of the Genus Oedicarena Loew (Diptera: Tephritidae)." Folia Entomologica Mexicana 75 (1988): 93-117.
- Pafume, B. A.; Campos, E. G.; Franczy, D. B.; Peyton, E. L.; Davis, A. N.; and Nelms, M. "Discovery of Aedes (Howardina) bahamensis in the United States. Journal of the Mosquito Control Association 4 (1988): 380.
- Peterson, B. V. "16. Family Anisopodidae." pp. 180-181 in Evenhuis, N. L. (Editor). Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- . "An Unusual Black Fly (Diptera: Simuliidae) Representing a New Genus and New Species." Journal of the New York Entomological Society 97 (1989): 317-331.
- Peterson, B. V., and Theischinger, G. "23. Family Thaumaleidae." pp. 219-220 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Peterson, B. V.; Baez, M.; and Sinclair, B. J. "A Redescription of the Adults, and Larva of Thaumalea subafricana (Diptera: Thaumaleidae), and First Description of the Pupa." Entomological News 100 (1989): 49-58.
- Peyton, E. L., and Ramalingam, S. "Anopheles (Cellia) nemophilous, a New Species of the Leucosphyrus Group from Peninsular Malaysia and Thailand (Diptera: Culicidae)." Mosquito Systematics 20 (1989): 272-299.
- Polhemus, J. T.; Froeschner, R. C.; and Polhemus, D. A. "Family Corixidae Leach, 1815." In Catalog of the Heteroptera, or True Bugs, of Canada and the Continental United States, Henry, T. J. and Froeschner, R. C. (Editors). (1988): 93-118.
- Polhemus, John T., and Spangler, Paul J. "A New Species of Rheumatobates Bergroth from Ecuador and Distribution Notes on the Genus (Heteroptera: Gerridae)." Proceedings of the Entomological Society of Washington 91 (3) (1989): 421-428.
- Poole, R. W. Fascicle 118. "Noctuidae." 3 volumes, 1,318 pp. Lepidopterorum Catalogus. E. J. Brill, Leiden (1988).
- Robbins, R. G. Book review. "The Fleas of the Pacific Northwest," by R. E. Lewis, J. H. Lewis, and C. Maser. Proceedings of the Entomological Society of Washington 91 (1989): 486-489.
- Russell, L. M. "Additions and Corrections to Data on Types of Aphids in Palmer's Aphids of the Rocky Mountain Region (Homoptera: Aphididae)." Annals of the Entomological Society of America 82 (1989): 407-413.
- Sabrosky, C. W. "Protocalliphora Hough, 1899 (Insecta: Diptera) and its Type Species Musca azurea Fallén, 1817: Proposed Conservation of Usage by Designation of a Replacement Lectotype." Bulletin of Zoological Nomenclature 46 (1989): 126-129.
- . "76. Family Asteiidae." pp. 552-553 in Evenhuis, N. L. (ed.), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).

- Sabrosky, C. W. "79. Family Australimyziidae." p. 558 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- _____. "80. Family Carnidae." p. 559 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- _____. "100. Family Chloropidae." pp. 650-665 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- _____. "78. Family Milichiidae." pp. 555-557 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Sabrosky, C. W. "Rapport sur les Myodaires du Docteur Robineau Desvoidy," 1826: Proposed Nomenclatural Suppression." Bulletin of Zoological Nomenclature 45 (1988): 283-287.
- Smith, D. R. "A New Species of the Leafmining Sawfly Genus Metallus (Hymenoptera: Tenthredinidae) from Eastern North America." Entomological News 99 (1988): 181-183.
- Smith, D. R. "The Sawfly Genus Arge (Hymenoptera: Argidae) in the Western Hemisphere." Transaction of the American Entomological Society 115 (1989): 83-205.
- Smith, D. R., and Solomon, J. D. "A New Janus (Hymenoptera: Cephidae) from Quercus, and Key to North American Species." Entomological News 100 (1989): 1-5.
- Smith, David R. "A New Species of Anoplonyx (Hymenoptera, Tenthredinidae) Feeding on Larch in Northern Japan." Kontyu, Tokyo 56 (1988): 569-572.
- Spangler, Paul J. "A New Species of Neotropical Water Bug, Paravelia biae, from Brazil (Heteroptera: Veliidae)." Proceedings of the Entomological Society of Washington 91 (3) (1989): 360-366.
- Strickman, D. "Biosystematics of Larval Movement of Central American Mosquitoes and Its Use for Field Identification." Journal of the American Mosquito Control Association 5 (1989): 208-218.
- _____. "Rate of Oviposition by Culex quinquefasciatus in San Antonio, Texas, During Three Years." Journal of the American Mosquito Control Association 4 (1988): 339-344.
- Thompson, F. C. "9. Family Lygistorrhinidae." p. 134 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Thompson, F. C.; and Vockeroth, J. R. "51. Family Syrphidae." pp. 437-458 in Evenhuis, N. L. (ed.), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Walker, J. B.; Keirans, J. E.; Pegram, R. G.; and Clifford, C. M. "Clarification of the Status of Rhipicephalus tricuspidis Donitz, 1906 and Rhipicephalus lunulatus Neumann, 1907 (Ixodoidea, Ixodidae)." Systematic Parasitology 12 (1988): 159-186.

- Weatherby, J. C.; Moser, J. C.; Gagne, R. J.; and Wallace, H. N. "Biology of a Pine Needle Sheath Midge, Contarinia acuta Gagne (Diptera: Cecidomyiidae) on Loblolly Pine." Proceedings of the Entomological Society of Washington 91 (1989): 346-349.
- White, Richard E. "Donald Joyce Borror." [Obituary] Proceedings of the Entomological Society of Washington 91 (1989): 304-306.
- Wirth, W. W., and Hubert, A. A. "The Culicoides of Southeast Asia (Diptera: Ceratopogonidae). Memoirs of the American Entomological Institute (44) (198): 508 pp.
- Woodley, N. E. "33. Family Stratiomyidae." pp. 301-320 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Woodley, N. E. "104. Family Neurochaetidae." pp. 671 in Evenhuis, N. L. (Editor), Catalog of the Diptera of the Australasian and Oceanian Regions, 1,155 pp., Bishop Museum Press and E. J. Brill, Honolulu (1989).
- Woodley, N. E. Chapter 115. "Phylogeny and Classification of the 'orthorrhaphous' Brachycera." pp. 1371-1395. In McAlpine, J. F. (Editor), Manual of Nearctic Diptera Volume 3. Research Branch, Agriculture Canada, Monograph No. 32. Ottawa. (1989): 1333-1581.

Department of Invertebrate Zoology

- Ai-Yun, D., and Barnard, J. L. "Four Species of Gammarus (Amphipoda) from China." Sinozoologia 12 (1988): 85-112. 13 figures.
- Arnaud, F., and Child, C. A. "The South African Museum's Meiring Naude Cruises, Part 17. Pycnogonida." Annals of the South African Museum 98 (6) (1988): 121-187. 14 figures.
- Barnard, J. L., and Drummond, M. M. "A New Marine Genus, Doowia, from Eastern Australia (Amphipoda: Gammaridea)." Proceedings of the Royal Society of Victoria 99 (1987): 117-126. 6 figures.
- Barnard, J. L., and Thomas, J. D. "Vadosiapus copacabanus, A New Genus and Species of Exoedicerotidae from Brazil (Crustacea: Amphipoda)." Proceedings of the Biological Society of Washington 101 (1988): 366-374. 3 figures.
- _____. "Ipanemidae, New Family, Ipanema talpa, New Genus and Species, from the Surf Zone of Brazil (Crustacea: Amphipoda: Haustorioidea)." Proceedings of the Biological Society of Washington 101 (1988): 614-621. 4 figures.
- _____. "Four Species of Synopiidae from the Caribbean Region (Crustacea: Amphipoda)." Proceedings of the Biological Society of Washington 102 (1989): 362-374. 6 figures.
- _____. "A New Species, Ampelisca burkei (Crustacea: Amphipoda) from Florida." Proceedings of the Biological Society of Washington 102 (1989): 375-384. 5 figures.
- Barnard, J. L.; Thomas J. D.; and Sandved, K. "Behavior of Gammaridean Amphipoda (Crustacea): Corophium, Grandidierella, Podocerus, and Gibberosus (American Megaluropus) in Florida." Crustaceana 13 (1988): 234-244. 1 figure.

- Bayer, F. M., and Stefani, J. "Primmoidae (Gorgonacea) de Nouvelle-Caledonie." Bulletin du Museum National d'Histoire Naturelle, Paris (4 ser.) 10 (section A) (No. 3) (1989): 449-518.
- Bowman, T. E. "The Input of Terrestrial Insects and Spiders to the Nutrient Cycle of a "Woodland Pond"." Entomological News 99 (4) (1988): 207-216.
- Bowman, T. E., and Lewis, J. J. "Occurrence of the Calanoid Copepod Eurytemora affinis (Poppe) in the Ohio River at Louisville, Kentucky." Journal of Crustacean Biology 9 (1) (1989): 83-84.
- Bruce, N. L., and Harrison-Nelson, E. B. "New Records of Fish Parasitic Marine Isopod Crustaceans (Cymothoidae, Subfamily Anilocrinae) from the Indo-West Pacific." Proceedings of the Biological Society of Washington 101 (3) (1988): 585-602. Figures 1-7.
- Cairns, S. D. "New Records of Stylasteridae from Western Australia, Including the Description of two new Species." Records of the Western Australian Museum 14 (1) (1988): 105-119. 4 plates.
- _____. "Cryptotrochus, New Genus and Two New Species of Deep-water Corals (Scleractinia: Turbiniliinae)." Proceedings of the Biological Society of Washington 101 (4) (1988): 709-716. 14 figures.
- Chace, Jr., F. A. "The Caridean Shrimps (Crustacea: Decapoda) of the Albatross Philippine Expedition, 1907-1910, Part 5: Family Alpheidae." Smithsonian Contributions to Zoology 466 (1988): vi+99. 25 figures.
- _____. "The Holotype of Heterocarpus alexandri A. Milne Edwards (Crustacea: Decapoda: Pandalidae)." Proceedings of the Biological Society of Washington 102 (2) (1989): 84-88. 1 figure.
- Child, C. A. "Pycnogonida." In Introduction to the Study of Meiofauna. Edited by R. P. Higgins and H. Thiel. (1988): 423-424. Figure 45-1. Smithsonian Institution Press, Washington, D.C.
- Chirino-Galvez, L. A., and Manning, R. B. "A New Deep-Sea Crab of the Genus Chaceon from Chile (Crustacea: Decapoda: Geryonidae)." Proceedings of the Biological Society of Washington 102 (2) (1989): 401-404.
- Clark, J., and Barnard, J. L. "Tonocote introflexidus, a New Species of Marine Amphipod from Argentina (Crustacea: Gammaridea: Amphipoda)." Proceedings of the Biological Society of Washington 101 (1988): 354-365.
- Cressey, R., and Boxshall, G. "Kabatarina pattersoni, a fossil parasitic copepod (Dichelesthiidae) from a lower cretaceous fish." Micropaleontology 35 (2) (1989): 150-167.
- Cullen, L. J., and Harshbarger, J. C. "Dose Dependent Teratosis in Spotted Salamander (Ambystoma maculatum) embryos exposed to diethylnitrosamine." Herpetopathologia 1 (1989): 41-47.
- Easa, M. El-S.; Harshbarger, J. C.; and Hetrick, F. M. "Hypodermal lipomas in a striped (grey) mullet Mugil cephalus." Diseases of Aquatic Organisms 6 (1989): 157-160.
- Fauchald, K. "Polychaete Studies on Aldabra and Associated Islands." Bulletin of the Biological Society of Washington 8 (1988): 19-21.

- Fauchald, K.; Sturmer, W.; and Yochelson, E. L. "Two Worm-Like Organisms from the Hunsrück Slate (Lower Devonian), Southern Germany." Palaontologische Zeitschrift 62 (1988): 205-215.
- Frye, F. L.; Dybdal, N. O.; and Harshbarger, J. C. "Testicular Interstitial Cell Tumor in a Desert Tortoise (Gopherus agassizi)." Journal of Zoo Animal Medicine 19 (1988): 55-58.
- Frye, F. L.; Eichelberger, S. A.; Harshbarger, J. C.; and Cuzzocrea, A. D. "Dysgerminomas in Two Red-Eared Slider Turtles (Trachemys scripta elegans) From the Same Household." Journal of Zoo Animal Medicine 19 (1988): 149-151.
- Harasewych, M. G. "A New Species of Coluzea (Gastropoda: Turbinellidae) from off Southeastern Africa." The Nautilus 103 (2) (1989): 70-72.
- Harasewych, M. G., and Petit, R. E. "The Nomenclatural Status and Phylogenetic Affinities of Syrinx aruanus Linne, 1758 (Prosobranchia: Turbinellidae)." The Nautilus 103 (2) (1989): 83-84.
- Harshbarger, J. C.; Rose, F. L.; and Cullen L. J. "Histopathology of Skin, Connective Tissue, Pigment Cell and Liver Neoplasms in Neotenic Ambystoma tigrinum from a Sewage Lagoon." Herpetopathologia 1 (1989): 19-27.
- Hart, Jr., C. W., and Clark, J. "An Interdisciplinary Bibliography of Freshwater Crayfishes (Astacoidea and Parastacoidea) from Aristotle through 1985. Updated through 1987." (1989): 498 pages. Smithsonian Institution Press, Washington, D. C.
- Hershler, R. "Holsingeria unthinksensis, a New Genus and Species of Aquatic Cavesnail from Eastern North America." Malacological Review 22 (1988): 93-100.
- . "Springsnails (Gastropoda: Hydrobiidae) of Owens and Amargosa River (Exclusive of Ash Meadows) Drainages, Death Valley System, California-Nevada." Proceedings of the Biological Society of Washington 102 (1989): 176-248.
- Hershler, R., and Hubricht, L. "Notes on Antroselates Hubricht, 1963 and Antrobia Hubricht, 1971 (Gastropoda: Hydrobiidae)." Proceedings of the Biological Society of Washington 101 (1988): 730-740.
- Hershler, R., and Thompson, F. G. "Notes on Morphology of Amnicola limosa (Say, 1817) (Gastropoda: Hydrobiidae) with Comments on Status of the Subfamily Amnicolinae." Malacological Review 22 (1988): 81-92.
- Higgins, R. P., and Korczynski, R. "Two New Species of Pycnophyes (Homalorhagida, Kinorhyncha) From the Canadian Coast of the Beaufort Sea." Canadian Journal of Zoology 67 (1989): 2056-2064.
- Higgins, R. P., and Storch, V. "Ultrastructural Observations of the Larva of Tubiluchus corallicola (Priapulida)." Helgol. Wiss. Meeresunters 43 (1989): 1-11.
- Hobbs, Jr., Horton H. "Burrowing Crayfishes in Virginia." Virginia Explorer 5 (2) (1989): 5-7.
- Hobbs, Jr., Horton H., and Peters, D. J. "New Records of Entocytherid Ostracods Infesting Burrowing Crayfishes, with the Description of a New Species, Ascetocythere stockeri." Proceedings of the Biological Society of Washington 102 (2) (1989): 324-330. Figure 1.

- Hobbs, Jr., Horton H., and Rodriguez, G. "Freshwater Crabs Associated with Caves in Southern Mexico and Belize, with Descriptions of Three New Species (Crustacea: Decapoda)." Proceedings of the Biological Society of Washington 102 (2) (1989): 394-400. Figures 1, 2.
- Houbrick, R. S. "Campanile Revisited: IMPLICATIONS FOR CERITHIOIDEAN PHYLOGENY." American Malacological Bulletin 7 (1) (1989): 1-6.
- Jones, M. L. "The Vestimentifera, Their Biology, Systematic and Evolutionary Patterns." Oceanologica Acta Special Issue 8 (1988): 69-82.
- Jones, M. L., and Gardiner, S. L. "Evidence for a Transient Digestive Tract in Vestimentifera." Proceedings of the Biological Society of Washington 101 (2) (1988): 423-433.
- Kensley, B. "New Species and Records of Cave Shrimps from the Yucatan Peninsula (Decapoda: Agostocarididae and Hippolytidae)." Journal of Crustacean Biology 8 (4) (1988): 688-699.
- Kensley, B., and Schotte, M. "Guide to the Marine Isopods of the Caribbean." (1989): 1-308. 111 figures. Smithsonian Institution Press, Washington, D. C. and London.
- Kensley, B., and Simmons, Jr., G. M. "Axiorygma nethertoni, a New Genus and Species of Thalassinidean Shrimp from Florida (Decapoda: Axiidae)." Journal of Crustacean Biology 8 (4) (1988): 657-667.
- Kornicker, L. S. "Ostracoda from the Skagerrak, North Sea (Myodocopina)." Proceedings of the Biological Society of Washington 100 (4) (1987): 876-891.
- _____. "Ostracoda (myodocopina) of Enewetak Atoll. The Natural History of Enewetak Atoll, Volume I, The Ecosystem: Environments, Biota, and Processes, and Volume II, Biogeography and Systematics." Edited by D. M. Devaney, E. S. Reese, B. L. Burch, and P. Helfrich. Chapter 21 (1987): 217-219.
- _____. "Myodocopine Ostracods of the Alaskan Continental Shelf." Proceedings of the Biological Society of Washington 101 (3) (1988): 549-567. Figures 1-7.
- _____. "Myodocopid Ostracods of the Beaufort Sea, Arctic Ocean." Smithsonian Contributions to Zoology 456 (1988): 1-40.
- _____. "Bathyal and Abyssal Myodocopid Ostracoda of the Bay of Biscay and Vicinity." Smithsonian Contributions to Zoology 467 (1989): 1-134. 73 figures, 8 tables.
- Kornicker, L. S., and Iliffe, T. M. "Troglobitic Ostracoda (Myodocopa: Cypridinidae, Thaumatoocypridinidae) from Anchialine Pools on Santa Cruz Island, Galapagos Islands." Smithsonian Contributions to Zoology 483 (1989): 1-38. 17 figures, 15 tables.
- _____. "New Ostracoda (Halocyprida: Thaumatoocypridinidae and Halocypridinidae) from Anchialine Caves in the Bahamas, Palau, and Mexico." Smithsonian Contributions to Zoology 470 (1989): 1-47. 22 figures, 8 tables.
- _____. "Ostracoda (Myodocopina Cladocopina, Halocypridina) Mainly from Anchialine Caves in Bermuda." Smithsonian Contributions to Zoology 475 (1989): 1-88. 49 figures, 22 tables.
- Kornicker, L. S., and Palmer, R. J. "Deeveya bransoni, a New Species of Troglobitic Halocyprid Ostracode from Anchialine Caves on South Andros Island, Bahamas (Crustacea: Ostracoda)." Proceedings of the Biological Society of Washington 100 (3) (1987): 610-623.

- Kristensen, R. M., and Higgins, R. P. "Marine Tardigrada from the Southeastern United States Coastal Waters. I. Paradoxipous orzeliscoides n. gen., n. sp. (Arthrotardigrada: Halechiniscidae)." Transactions of the American Microscopical Society 108 (1989): 262-282.
- Manning, R. B. "The Status of Callianassa hartmeyeri Schmitt, 1935, with the Description of Corallianassa xutha from the West Coast of America (Crustacea: Decapoda: Thalassinidea)." Proceedings of the Biological Society of Washington 101 (4)(1988): 883-889.
- Manning, R. B., and Holthuis, L. B. "Two New Genera and Nine New Species of Geryonid Crabs (Crustacea: Decapoda: Geryonidae)." Proceedings of the Biological Society of Washington 102 (1)(1989): 50-77.
- Nakamura, K., and Child, C. A. "Pycnogonida of the Western Pacific Islands, V. A Collection by the Kakuyo Maru from Samoa." Proceedings of the Biological Society of Washington 101 (4)(1988): 809-816. 2 figures.
- Pawson, D. L. "Holothuroidea." In Introduction to the Study of Meiofauna. Edited by R. P. Higgins and H. Thiel. (1988): 457-460. Smithsonian Institution Press, Washington, D. C.
- _____. "Theodore Lyman, 1833-1897." In Echinoderm Studies 3. Edited by M. Jangoux and J. M. Lawrence. (1989). A. A. Balkema, Rotterdam.
- Pawson, D. L.; Foell, E. J.; and Hennigar, Jr., H. G. "Assessment of Abyssal Benthic Megafauna on a Ferromanganese Nodule Deposit Using Videotaped Television Survey Data." In Proceedings, Offshore Technology Conference, Houston (1989): 313-320.
- Pawson, D. L., and Miller, J. E. "Thyone tanyspeira, a New Species of Sea Cucumber from the Southern Caribbean Sea (Echinodermata: Holothuroidea)." Bulletin of Marine Science 42 (2)(1988): 310-316.
- Pettibone, M. H. "New Species of Scale-Worms (Polychaeta: Polynoieae) from the Hydrothermal Rift-Area of the Mariana Back-Arc Basin in the Western Central Pacific." Proceedings of the Biological Society of Washington 102 (1)(1989): 137-153. 9 figures, 2 tables.
- _____. "Polynoidae and Sigalionidae (Polychaeta) from the Guaymas Basin, with Descriptions of Two New Species, and Additional Records from Hydrothermal Vents of the Galapagos Rift, 21°N, and Seep-Sites in the Gulf of Mexico (Florida and Louisiana)." Proceedings of the Biological Society of Washington 102 (1)(1989): 154-168. 6 figures, 1 table.
- Pettibone, M. H. "A New Species of Benhamipolynoe (Polychaeta: Polynoidae: Lepidastheniinae) from Australia, Associated with the Unattached Stylasterid Coral Conopora adeta." Proceedings of the Biological Society of Washington 102 (2)(1989): 300-304. 2 figures.
- _____. "Two New Species of Harmothoinae (Polychaeta: Polynoidae) from the East Pacific Rise, Collected by Alvin Dives 2000 and 2003." Proceedings of the Biological Society of Washington 102 (2)(1989): 305-310. 4 figures.

- Pettibone, M. H. "Revision of the Aphroditoid Polychaetes of the Family Acoetidae Kinberg (=Polyodontidae Augener) and Re-establishment of Acoetes Audouin and Milne-Edwards, 1832, and Euarche Ehlers, 1887." Smithsonian Contributions to Zoology 464 (1989): 1-138. 96 figures.
- Reid, J. W. "Thermocyclops decipiens (Copepoda Cyclopoida): Exemplo de confusão taxonômica. (Thermocyclops decipiens: Example of Taxonomic Confusion.)" Proceedings, I Congresso Brasileiro de Limnologia, Belo Horizonte, Brazil, September 1986. Acta Limnologica Brasiliensia 2 (1988): 479-499.
- _____. "Records of Cyclopoid and Harpacticoid Copepods (Crustacea) from a Spring in Washington, D. C." Proceedings of the Biological Society of Washington 101 (2) (1988): 314-316.
- _____. "Yansacyclops ferrarii New Genus, New Species, of Copepoda (Cyclopoida) from the Amazon Basin, Brazil." (Special Volume on Biology of Copepods, Proceedings of the Third International Conference on Copepoda. Edited by G. A. Boxshall and H. K. Schminke.) Hydrobiologia 167/168 (1988): 429-434.
- _____. "Distribution and Ecology of Species of the Genus Thermocyclops in the New World, with Description of T. parvis, New Species." Hydrobiologia 175 (2) (1989): 149-174.
- Reid, J. W.; Pinto-Coelho, R. M.; and Giani, A. "Uma apreciação da fauna de copepodos da região de Belo Horizonte, com comentários sobre espécies de Minas Gerais. (An Assessment of the Copepod Fauna of the Region of Belo Horizonte, With Commentaries on Species of Minas Gerais.)" Proceedings, I Congresso Brasileiro de Limnologia, Belo Horizonte, September 1986. Acta Limnologica Brasiliensia 2 (1988): 527-547.
- Reid, J. W., and Turner, P. N. "Planktonic Rotifera, Copepoda and Cladocera from Lakes Acu and Viana, State of Maranhão, Brazil." Revista Brasileira de Biologia 48 (3) (1988): 485-495.
- Ruetzler, K. "Mangrove Sponge Disease Induced by Cyanobacterial Symbionts: Failure of a Primitive Immune System?" Diseases of Aquatic Organisms 5 (1988): 143-149.
- Sohn, I. G., and Kornicker, L. S. "Ultrastructure of Myodocopid Shells (Ostracoda)." In Evolutionary Biology of Ostracoda (Proceedings of the Ninth International Symposium on Ostracoda). Edited by T. Hanai, N. Ikeya, and K. Ishizaki. (1988): 243-257. Plates 106. Tokyo: Kodansha Ltd.
- Stapleton, J. L.; Williams, W. D.; and Barnard, J. L. "The Morphology of the Calceolus of an Australian Crangonyctoid Freshwater Amphipod." Crustaceana 55 (1988): 157-162. 2 figures.
- Storch, V., and Higgins, R. P. "The Ultrastructure of Developing and Mature Spermatozoa of Tubiluchus corallicola (Priapulida)." Transactions of the American Microscopical Society 108 (1989): 45-50.
- Storch, V.; Higgins, R. P.; and Morse, M. P. "The Internal Anatomy of Meiopriapulius fijiensis (Priapulida)." Transactions of the American Microscopical Society 108 (1989): 245-261.
- Thomas, J. D., and Barnard, J. L. "Elastopus balkomanus, a New Species of Elastopus from the Florida Keys (Crustacea: Amphipoda)." Proceedings of the Biological Society of Washington 101 (1988): 838-842. 3 figures.

- Thomas, J. D., and Barnard, J. L. "Gammaropsis arawakia, a New Species of Marine Amphipoda (Crustacea) from Jamaica." Proceedings of the Biological Society of Washington 102 (1989): 89-94. 3 figures.
- Williams, A. B., and Child, C. A. "Some Genera and Species of Oxystomatous Crabs (Brachyura: Calappidae) in the Southwestern North Atlantic." U. S. Fisheries Bulletin 87 (1)(1989): 105-121. 7 figures.
- Williams, W. D., and Barnard, J. L. "The Taxonomy of Crangonyctoid Amphipoda (Crustacea) from Australian Fresh Waters: Foundation Studies." Records of the Australian Museum 10 (1988): 1-180. 104 figures.

Department of Mineral Sciences

- Abbott, R. N., Jr.; Post, J. E.; and Burnham, C. W. "Structure Energy Calculations Bearing on the Location of Hydrogen Atoms in Various Hydroxyl-bearing Minerals." Geological Society of America Abstracts. 20 (1988): A224.
- _____. "Treatment of the Hydroxyl in Structure-energy Calculations." American Mineralogist. 74 (1989): 141-150.
- Batiza, R.; Fox, R. J.; Vogt, P. R.; Cande, S. C.; Grindlay, N. R.; Melson, W. G.; and O'Hearn, T. J. "Morphology, Abundance, and Chemistry of Near-ridge Seamounts in the Vicinity of the Mid-Atlantic Ridge at 26°S." Journal of Geology. 97 (1989): 209-220.
- Bish, D. L., and Post, J. E. "Quantitative Analysis of Geological Materials Using X-ray Powder Diffraction Data and the Rietveld Refinement Method." Geological Society of America Abstracts. 20 (1988): A223.
- Borgia, A.; Poore, C.; Carr, M. J.; Melson, W. G.; and Albarado, G. F. "Structural, Stratigraphic, and Petrologic Aspects of the Arenal-Cerro Chato Volcanic System: Evolution of a Young Stratovolcano Complex." Bulletin of Volcanology. 50 (1988): 86-105.
- Buchwald, V. F., and Clarke, R. S., Jr. "Corrosion of Fe-Ni Alloys by Cl-containing Akaganeite (B-FeOOH): The Antarctic Meteorite Case." American Mineralogist. 74 (1989): 656-667.
- Byerly, G. R.; Jarosewich, E.; Mason, B.; and Clarke, R. S., Jr. "The Greenwell Springs LL4 Chondrite: A New Fall from Louisiana, USA." Meteoritics. 23 (1988): 359-360.
- Cerny, P.; Chapman, R.; God, R.; Niedermayr, G.; and Wise, M. A. "Exsolution Intergrowths of Titanian Ferrocolumbite and Niobian Rutile from the Weinebene Spodumene Pegmatites, Carinthia, Austria." Mineralogy and Petrology. 40 (1989): 197-206.
- Cerny, P.; Tomascak, P.; and Wise, M. A. "Pegmatite Studies in the Aylmer Lake Area, Northwest Territories." in Geology Division, Indian Affairs and Northern Development Report EGS 189-2 (1989): 14 pages.
- Cerny, P.; Wise, M. A.; and Tomascak, P. "Reconnaissance of M1, M2 and Qulik 1 Claims, Chantrey Inlet, N.W.T." in Geology Division, Indian Affairs and Northern Development Report EGS 189-3 (1989): 16 pages.

- Clarke, R. S., Jr. "Descriptions of Some Antarctic Iron Meteorite." Smithsonian Contributions to the Earth Sciences. 28 (1989): 61-63.
- Dietrich, R. V.; White, J. S.; Nelen, J. E.; and Chyi, K. "A Gem-quality Iridescent Orthoamphibole from Wyoming." Gems and Gemology. 24 (1988): 161-164.
- Duncker, K. E.; Wolff, J. A.; Harmon, R. S.; Leat, P. T.; Thompson, R. N.; and Dickin, A. P. "Mantle and Crustal Components in Mafic to Intermediate Lavas of the Cerros del Rio Volcanic Field, Rio Grande Rift, New Mexico." New Mexico Bureau of Mines and Mineral Resources Bulletin. 131 (1989): 77.
- Dunn, P. J. "Protocols for Scientists on the Deposition of Investigated Mineral Specimens." American Mineralogist. 73 (1988): 1480.
- _____. "Protocols for Scientists on the Deposition of Investigated Mineral Specimens." Mineralogical Record. 19 (1988): 291.
- Dunn, P. J. "Protocols for Scientists on the Deposition of Investigated Mineral Specimens." Mineralogy and Petrology. 38 (1988): 299-300.
- _____. "Protocols for Scientists on the Deposition of Investigated Mineral Specimens." Canadian Mineralogist. 27 (1989): 157.
- _____. "Protocols for Scientists on the Deposition of Investigated Mineral Specimens." Mineralogical Magazine. 53 (1989): 131.
- Dunn, P. J.; Francis, C. A.; and Innes, J. "A Mogovernite-like Mineral and Leucophoenicite from the Kombat Mine, Namibia." American Mineralogist. 73 (1988): 1182-1185.
- Dunn, P. J.; Grice, J. D.; and Bideaux, R. A. "Pinalite, a New Lead Tungsten Chloride Mineral from the Mammoth Mine, Pinal County, Arizona." American Mineralogist. 74: 934-935.
- Dunn, P. J.; Grice, J. D.; and Metropolis, W. C. "Zodacite, the Mn Analogue of Montgomeryite, from Mangualde, Portugal." American Mineralogist. 73 (1988): 1179-1181.
- Dunn, P. J.; Grice, J. D.; Wicks, F. J.; and Gault, R. A. "Paulkellerite, a New Bismuth Iron Phosphate Mineral from Schneeberg, Germany." American Mineralogist. 73 (1988): 870-872.
- Dunn, P. J., and Mandarino, J. A. "The Preservation of Type Mineral Specimens." Mineralogical Record. 19 (1988): 226-227.
- _____. "The Commission on New Minerals and Mineral Names of the International Mineralogical Association: Its History, Purpose, and General Practice." Mineralogical Record. 19 (1988): 319-323.
- Fiske, R. S. "Volcanoes and Society - Challenges of Coexistence." Proceedings Kagoshima International Conference on Volcanoes. (1988): 14-21.
- Fiske, R. S., and Cashman, K. V. "Submarine Fallout Deposit in the Shirahama (Mio-Pliocene), Japan." (abs.) New Mexico Bureau of Mines & Mineral Resource Bulletin. (IAVCEI General Assembly) 131 (1989): 92.
- Fredriksson, K. "Composition of Chondrules and Parent Materials." (abs.) 19th Lunar and Planetetary Science Conference. (1988): 352-353.

- Fredriksson, K., and Kerridge, J. F. "Carbonates and Sulfates in Cl Chondrites: Formation by Aqueous Activity on the Parent Body." Meteoritics. 23 (1988): 35-44.
- Fredriksson, K., and Wlotzka, F. "Experiments with a Leitz 1750 Degree C Heating Stage." (abs.) Meteoritics. 23 (3)(1988): 269.
- Fudali, R. F. "Effects of Quench Methods on Fe³⁺/Fe²⁺ Ratios: Discussion." American Mineralogist. 23 (1988): 1478.
- Fudali, R. F., and Schutt, J. W. "The Field Season in Victoria Land, 1983-1984." Smithsonian Contributions to the Earth Sciences. 28 (1989): 23-27.
- Funk, V. A., and Melson, W. G. "Volcanological and Biological Observatory at Arenal Volcano (Alajuela Province, Costa Rica)." Biotropica 21 (1)(1989): 95-96.
- Jarosewich, E. "Chemical Composition of Antarctic and Non-Antarctic Meteorites: a Comparison." Abstracts for the Workshop on Differences Between Antarctic and Non-Antarctic Meteorites. (1989): 27-29.
- Kampf, A. R.; Dunn, P. J.; and Foord, E. E. "Grandreefite, Pseudograndreefite, Laurelite, and Aravaipaite: Four New Minerals from the Grand Reef Mine, Graham County, Arizona." American Mineralogist. 74 (1989): 927-933.
- Koeberl, C.; Fredriksson, K.; Gotzinger, M.; and Reimold, W. U. "Anomalous Quartz from the Roter Kamm Impact Crater, Namibia: Evidence for Post-impact Hydrothermal Activity?" Geochimica et Cosmochimica Acta. 53 (1989): 2113-2118.
- MacPherson, G. M., and Grossman, J. N. "Scanning Electron Microscopy of Chondritic Meteorites: Evidence for Condensation and Aggregation Processes During the Birth of the Solar System." Scanning Microscopy. 3 (1989): 83-87.
- MacPherson, G. M.; Crozaz, G.; and Lundberg, L. L. "The Evolution of a Complex Type B Allende Inclusion: An Ion Microprobe Trace Element Study." Geochimica et Cosmochimica Acta. 53 (1989): 2413-2427.
- McClelland, L.; Simkin, T.; Summers, M.; Nielsen, E.; and Stein, T. C. Global Volcanism 1975-1985: The First Decade of Reports from the Smithsonian Institution's Scientific Event Alert Network (SEAN). New Jersey: Prentice Hall, 1989, 657 pages.
- Melson, W. G. "National Collection of Rocks and Ores" in Collections for the Future: Archivists, Curators, Historians, Bibliographers Speak. 18 (1988): 26-36.
- Melson, W. G.; O'Hearn, T.; and Fredriksson, K. "Composition and Origin of Basaltic Glass Spherules in Pelagic Clay from the Eastern Pacific." Marine Geology. 83 (1988): 253-271.
- Melson, W. G.; Saenz, R.; Barquero, J.; and Fernandez, E. "Edad Relativo de las Erupcioens del Cerro Congo y Laguna Hule." Boletin de Vulcanologia. 19 (1988): 8-10.
- Morris, D. E.; Asmar, N. G.; Nickel, J. H.; Sid, R. L.; Wei, J. Y. T.; and Post, J. E. "Stability of 124, 123, and 247 Superconductors." Physica C 159 (1989): 287-294.

- Morris, D. E.; Nickel, J. H.; Wei, J. Y. T.; Asmar, N. G.; Scott, J. S.; Scheven, U. M.; Hultgren, C. T.; Markelz, A. G.; Post, J. E.; Heaney, P. J.; Veblen, D. R.; and Hazen, R. M. "Eight New High-temperature Superconductors with the 1:2:4 Structure." Physical Rev. B. 39 (1989): 7347-7350.
- Olsen, E. J.; Fredriksson, K.; and Rajan, S. "Investigating the C.I.A." (abs.) 19th Lunar and Planetary Science Conference (1988): 891-892.
- Olsen, E. J.; Huss, G. I.; and Jarosewich, E. "The Eagle, Nebraska Enstatite Chondrite (EL6)." Meteoritics. 23 (1988): 379-380.
- Peacor, D. R., and Dunn, P. J. "Dollaseite-(Ce) (Magnesium Orthite Redefined): Structure Refinement and Implications for F + M2+ Substitutions in Epidote Group Minerals." American Mineralogist. 73 (1988): 838-842.
- Peacor, D. R.; Dunn, P. J.; Simmons, W. B.; Wicks, F. J.; and Raudsepp, M. "Maricopaite, a New Hydrated Ca-Pb, Zeolite-like Silicate from Arizona." Canadian Mineralogist. 26 (1988): 309-313.
- Peacor, D. R.; Sarp, H.; Dunn, P. J.; and Nelen, J. A. "Defernite from the Kombat Mine, Namibia: a Ssecond Occurrence, Structure Refinement, and Crystal Chemistry." American Mineralogist. 73 (1988): 888-893.
- Post, J. E. "Rietveld Refinement of the Akaganeite Structure, Using Powder Diffraction Data." Geological Society of America Abstracts. 20 (1988): A102.
- Post, J. E., and Appleman, D. E. "Chalcophanite, $ZnMn_3O_7 \cdot 3H_2O$: New Crystal-structure Determinations." American Mineralogist. 73 (1988): 1401-1404.
- Post, J. E., and Bish, D. L. "Rietveld Refinement of the Coronadite Structure." American Mineralogist. 74 (1989): 913-917.
- Post, J. E., and Ross, D. R. "Rietveld Refinements of Two Coexisting Ramsdellite Phases." EOS. 70 (1989).
- Roberts, A. C., and Dunn, P. J. "Mineralogical Data for a New, Unnamed Arsenate from the Langban Mine." Geologiska Foreningens Forhandlingar Stockholm. 110 (1988): 181-182.
- Roberts, A. C.; Dunn, P. J.; Grice, J. D.; Newbury, D. E.; and Roberts, W. L. "The X-ray Crystallography of Tavorite from the Tip Top Pegmatite, Custer, South Dakota." Powder Diffraction. 3 (1988): 93-95.
- Siebert, L.; Glicken, H.; and Kienle, J. "Debris Avalanches, Lateral Blasts, and Tsunamis: Volcanic Hazards at Mount St. Augustine, Alaska." Proceedings Kagoshima International Conference on Volcanoes. (1988): 452-455.
- Siebert, L.; Glicken, H.; and Kienle, J. "Debris Avalanches and Lateral Blasts at Mount St. Augustine Volcano, Alaska." National Geographic Research. 5 (2) (1989): 232-249.
- Simkin, T. "Terrestrial Volcanic Eruptions in Time and Space." Proceedings Kagoshima International Conference on Volcanoes. (1988): 412-415.
- _____. Review of Volcanic Hazards by John H. Latter (New York: Springer-Verlag, 1989) in Science Magazine 245 (July 1989): 83-84.

- Simkin, T.; Tilling, R. I.; Taggart, J. N.; Jones, W. J.; and Spall, H. This Dynamic Planet: World Map of Volcanoes, Earthquakes, and Plate Tectonics. Reston, Virginia: U. S. Geological Survey, 1989.
- Sorensen, S. S. "Petrology of Amphibolite-facies Mafic and Ultramafic Rocks from the Catalina Schist, Southern California: Metasomatism and Migmatization in a Subduction Zone Metamorphic Setting." Journal of Metamorphic Geology. 6 (1988): 405-435.
- _____. "Tectonometamorphic Significance of the Basement Rocks of the Los Angeles Basin and the California Continental Borderland" in Metamorphism and Crustal Evolution of the Western United States, ed. by W. G. Ernst (1988): 998-1022.
- _____. "Metasomatism and Migmatization of Garnet Amphibolites and Related Rocks, Catalina Schist, California: Petrologic and Geochemical Evidence for Fluid-mediated Mass Transfer During Early Stages of Subduction." Terra Abstracts 1, Third International Eclogite Conference (1989): 22.
- Sorensen, S. S., and Grossman, J. N. "Constraints on Metasomatism and Partial Melting from Petrogenetic Modelling of Rare Earth Elements: a Case Study from the Catalina Schist, Southern California." Geological Society of America Abstracts. 20 (1988): A304.
- Tamura, Y.; Koyama, M.; and Fiske, R. S. "Hot Pyroclastic Debris Flow in the Shallow Submarine Shirahama Group (Mio-Pliocene), Japan." (abs.) New Mexico Bureau of Mines & Mineral Resource Bulletin (IAVCEI General Assembly). 131 (1989): 265.
- Walenta, K., and Dunn, P. J. "Ein Richelsdorffitähnliches Mineral von der Grube Clara." Der Erzgraber. 2 (2)(1988): 97-103.
- White, J. S. "Why Colored Diamonds Are, Paradoxically, Undervalued and Often Overpriced." Jewel. 1 (1988): 61-62.
- _____. "In Memoriam: Dean A. McCrillis." Rocks & Minerals 64 (1989): 418.
- White, J. S., and Conklin, L. H. "Aesthetik und Wettbewerb-sammeln und Sammler in Amerika und Europa, ein Vergleich." Munich Show Catalog. (1988): 44-47.
- Wise, M. A., and Cerny, P. "Pegmatite Deposits of the Northwest Territories: Aylmer Lake-Mackay Lake and Chantrey Inlet Pegmatite Fields." (abs.) in Exploration Overview, N.W.T. (1988): 62.
- Zuber, M.; James, O.; MacPherson, G.; and Plescia, J. (editors). Planetary Geosciences-1988. Washington, D. C.: National Aeronautics and Space Administration, 1989.

Department of Paleobiology

- Adey, W. H. "On National Parks - Conservation, Education, or Recreation? A Role for Synthetic Ecology." Courier 34 (2)(1989): 8-11.
- _____, editor. The Biology, Ecology, and Mariculture of Mithrax spinosissimus Based on Cultured Algal Turfs. Los Angeles: Mariculture Institute, (1989): 250 pages.

- Adey, W. H., and Hackney, J. M. "Harvest Production of Coral Reef Algal Turfs." In The Biology, Ecology, and Mariculture of *Mithrax spinosissimus* Based on Cultured Algal Turfs (1989): Section I: 1-135. Edited by W. H. Adey. Los Angeles: Mariculture Institute.
- Behrensmeyer, A. K. "The Pull of the Recent Analogue." PALAIOS 3 (4) (1988): 373.
- Benson, R. H. "Ostracods and Palaeoceanography." In Ostracoda in the Earth Sciences (1988): 1-26. Edited by J.-P. Colin and J.-P. Peypouquet. Amsterdam, The Netherlands: Elsevier Science Publishers, B. V.
- Berdan, J. M. "Middle Ordovician (Whitrockian) Palaeocopid and Podocopid Ostracodes from the Ibex Area, Millard County, Western Utah." New Mexico Bureau of Mines and Mineral Resources Memoir 44 (1988): 273-301.
- _____. "Mechanical Extraction of Microfossils." In Paleotechniques: The Paleontological Society Special Publication Number 4 (1989): 99-100. Edited by R. M. Feldmann, R. E. Chapman, and J. T. Hannibal. Knoxville, Tennessee: Department of Geological Sciences, The University of Tennessee.
- Berta, A.; Ray, C. E.; and Wyss, A. R. "Skeleton of the Oldest Known Pinniped, Enaliarctos mealsi." Science 244 (4900) (1989): 60-62.
- Burke, R. B.; Adey, W. H.; and Macintyre, I. G. "Overview of the Holocene History, Architecture, and Structural Components of the Teague Reef and Lagoon Based on Cores." In Terrestrial and Marine Geology of St. Croix, U. S. Virgin Islands, West Indies Laboratory Special Publication Number 8 (1989): 105-109. Edited by D. K. Hubbard. Teague Bay, St. Croix: West Indies Laboratory.
- Buzas, M. A. "The Effect of Quartz Versus Calcareous Sand on the Densities of Living Foraminifera." Micropaleontology 35 (2) (1989): 135-141.
- Buzas, M. A., and Culver, S. J. "Biogeographic and Evolutionary Patterns of Continental Margin Benthic Foraminifera." Paleobiology 15 (1) (1989): 11-19.
- Buzas, M. A.; Collins, L. S.; Richardson, S. L.; and Severin, K. P. "Experiments on Predation, Substrate Preference, and Colonization of Benthic Foraminifera at the Shelfbreak off the Ft. Pierce Inlet, Florida." Journal of Foraminiferal Research 19 (2) (1989): 146-152.
- DiMichele, W. A., and Nelson, W. J. "Small-scale Heterogeneity in Pennsylvanian-age Vegetation from the Roof Shale of the Springfield Coal (Illinois Basin)." PALAIOS 4 (3) (1989): 276-280.
- DiMichele, W. A., and Phillips, T. L. "Paleoecology of the Middle Pennsylvanian-age Herrin Coal Swamp near a Contemporaneous River System, the Walshville Paleochannel." Review of Palaeobotany and Palynology 56 (1/2) (1988): 151-176.
- DiMichele, W. A.; Burnham, R. J.; and Sues, H.-D. Review of "Origins of Angiosperms and their Biological Consequences." Edited by E. M. Friis, W. G. Chaloner, and P. R. Crane. PALAIOS 3 (4) (1988): 449-452.

- DiMichele, W. A.; Davis, J. I.; and Olmstead, R. G. "Origins of Heterospory and the Seed Habit." Taxon 38 (1)(1989): 1-11.
- Fauchald, K.; Stürmer, W.; and Yochelson, E. L. "Two Worm-like Organisms from the Hunsrück Slate (Lower) Devonian, Southern Germany." Paläontologische Zeitschrift 62 (3/4)(1988): 205-215.
- Foucault, A., and Stanley, D. J. "Late Quaternary Palaeoclimatic Oscillations in East Africa Recorded by Heavy Minerals in the Nile Delta." Nature 339 (6219)(1989): 44-46.
- Grant, R. E. "The Family Cardiarinidae (Late Paleozoic Rhynchonellid Brachiopoda)." Frankfurt am Main Senckenbergiana Lethaea 69 (1/2)(1988): 121-135.
- Graus, R. R., and Macintyre, I. G. "The Zonation Patterns of Caribbean Coral Reefs as Controlled by Wave and Light Energy Input, Bathymetric Setting and Reef Morphology: Computer Simulation Experiments." Coral Reefs 8 (1)(1989): 9-18.
- Hackney, J. M.; Carpenter, R. C.; and Adey, W. H. Characteristic Adaptations to Grazing Among Algal Turf on a Caribbean Coral Reef." Phycologia 28 (1)(1989): 109-119.
- Hatcher, Jr., R. D.; Larson, K. W.; and Neuman, R. B. "Western Great Smoky Mountains Window: The Foothills Duplex." In Southern Appalachian Windows: Comparison of Styles, Scales, Geometry, and Detachment Levels of Thrust Faults in the Foreland and Internides of a Thrust-dominated Orogen: International Geological Congress 28th (Washington, D. C.) Field Trip T167 Guidebook (1989): 49-60. Edited by R. D. Hatcher, Jr., and W. A. Thomas. Washington, D. C.: American Geophysical Union.
- Hodell, D. A.; Benson, R. H.; Kennett, J. P.; and Bied, K. R. "Stable Isotope Stratigraphy of Latest Miocene Sequences in Northwest Morocco: The Bou Regreg Section." Paleoceanography 4 (4)(1989): 467-482.
- Houbrick, R. S.; Stürmer, W.; and Yochelson, E. L. "Rare Mollusca from the Lower Devonian Hunsrück Slate of Southern Germany." Lethaia 21 (4)(1988): 395-402.
- Hubbard, T. K.; Zenger, L.; Parsons, C.; and Stanley, D. J. "Geologic Development of the West End Terrace System of St. Croix, U. S. Virgin Islands." In Terrestrial and Marine Geology of St. Croix, U. S. Virgin Islands; West Indies Laboratory Special Publication Number 8 (1989): 73-83. Edited by D. K. Hubbard. Teague Bay, St. Croix: West Indies Laboratory.
- Huber, B. T. "Upper Campanian-Paleocene Foraminifera from the James Ross Island Region (Antarctic Peninsula)." In Geology and Paleontology of Seymour Island, Antarctic Peninsula, Geological Society of America Memoir Series Number 169 (1988): 163-252. Edited by R. M. Feldmann and M. O. Woodburne. Denver, Colorado: The Geological Society of America.
- Hueber, F. M., and Watson, J. "The Unusual Upper Cretaceous Conifer *Androvettia* from Eastern U. S. A." Botanical Journal of the Linnean Society 98 (2)(1988): 117-133.
- Labandeira, C. C.; Beall, B. S.; and Hueber, F. M. "Early Insect Diversification: Evidence from a Lower Devonian Bristletail from Québec." Science 242 (4880)(1988): 913-916.
- Linsley, R. M.; Mapes, R. H.; Wang Hui-ji; and Yochelson, E. L. "Some New Paleozoic Gastropod Opercula (Pennsylvanian: Texas): Journal of Paleontology 63 (2)(1989): 206-211.

- Macintyre, I. G. "Modern Coral Reefs of Western Atlantic: New Geological Perspective." The American Association of Petroleum Geologists Bulletin 72 (11)(1988): 1360-1369.
- Mamay, S. H. "Evolsonia, a New Genus of Gigantopteridaceae from the Lower Permian Vale Formation, North-Central Texas." American Journal of Botany 76 (9)(1989): 1299-1311.
- McDonald, J. N., and Ray, C. E. "The Autochthonous North American Musk Oxen *Bootherium*, *Symbos*, and *Gidleya* (Mammalia: Artiodactyla: Bovidae)." Smithsonian Contributions to Paleobiology Number 66. Washington, D. C.: Smithsonian Institution Press, 77 pages.
- Morgan, G. S.; Linares, O. J.; and Ray, C. E. "New Species of Fossil Vampire Bats (Mammalia: Chiroptera: Desmodontidae) from Florida and Venezuela." Proceedings of the Biological Society of Washington 101 (4)(1988): 912-928.
- Neuman, R. B., and Bruton, D. L. "Geologic Setting of the Lower Hovin Group (Arenig/Llanvirn) Hølanda Area, Sør-Trøndelag, Norway." Academy of Sciences of the Estonian SSR Proceedings 38 (2)(1989): 73-76.
- Neuman, R. B., and Max, M. D. "Penobscottian-Grampian-Finnmarkian Orogenies as Indicators of Terrane Linkages." In Terranes in the Circumatlantic Orogens; Geological Society of America Special Paper 230 (1989): 31-45. Edited by R. D. Dallmeyer. Boulder, Colorado: Geological Society of America.
- Pimmell, A., and Stanley, D. J. "Verdinized Fecal Pellets as Indicators of Prodelta and Delta-front Deposits in the Nile Delta, Egypt." Marine Geology 86 (4)(1989): 339-347.
- Ray, C. E. Review of "A Short History of Vertebrate Paleontology," by E. Buffetaut. Earth Sciences History 7 (2)(1988): 162.
- Sohn, I. G. "Early Mississippian (Tournaisian) Ostracodes from the Lisburne Test Well, Northeastern Alaska." U. S. Geological Survey Professional Paper 1399 (1988): 687-690.
- _____. "Darwinulocopina (Crustacea: Podocopa), a New Suborder Proposed for Normarine Paleozoic to Holocene Ostracoda." Proceedings of the Biological Society of Washington: 101 (4)(1988): 817-824.
- Stanley, D. J. "Low Sediment Accumulation Rates and Erosion on the Middle and Outer Nile Delta Shelf off Egypt." Marine Geology 84 (1/2)(1988): 111-117.
- _____. Review of "The Ocean of Truth, A Personal History of Global Tectonics," by H. W. Menard. Earth Sciences History 7 (2)(1988): 162-163.
- _____. "Sedimentology and Paleogeography of Upper Cretaceous Rocks, St. Croix, U. S. Virgin Islands: New Interpretations." In Terrestrial and Marine Geology of St. Croix, U. S. Virgin Islands, West Indies Laboratory Special Publication Number 8 (1989): 37-47. Edited by D. K. Hubbard. Teague Bay, St. Croix: West Indies Laboratory.
- Tuross, N. C.; Behrensmeyer, A. K.; Eanes, E. D.; Fisher, L. W.; and Hare, P. E. "Molecular Preservation and Crystallographic Alterations in a Weathering Sequence of Wildebeest Bones." Applied Geochemistry 4 (3)(1989): 261-270.
- Whitmore, F. C., Jr. Review of "An American Topographer," by G. S. Druhot. Earth Science History 7 (2)(1988): 160.

- Whitmore, F. C., Jr., scientific editor. English translation of "Fossil Cetacea of the Caucasus," by G. A. Mchedlidze. Washington, D. C.: Smithsonian Institution Press and National Science Foundation, 124 pages.
- Yochelson, E. L. "A New Genus of Patellacea from the Middle Ordovician of Utah; Oldest-known Example of the Superfamily to Date." New Mexico Bureau of Mines Memoir 44 (1988): 195-200.
- Yochelson, E. L. "The Lives and Time of Curt Teichert." Frankfurt am Main Senckenbergiana Lethaea 69 (1/2) (1988): 2-9.

Department of Vertebrate Zoology

- Alcala, Angel C.; Ross, Charles A.; and Alcala, E. L. "Observations on Reproduction and Behavior of Captive Philippine Crocodiles (Crocodylus mindorensis Schmidt). Silliman Journal 34 (1988): 18-28.
- Balouet, Jean Christophe, and Olson, Storrs L. "Fossil Birds from Late Quaternary Deposits in New Caledonia." Smithsonian Contributions to Zoology 469 (10 January 1989): 1-38.
- Banks, Richard C. "Obsolete English Names of North American Birds and Their Modern Equivalents." Fish and Wildlife Service, Resource Publication 174 (1988): 37 pages.
- _____. Grants, Awards, and Prizes in Ornithology. Second Edition. American Ornithologists' Union, Washington, D.C. (1989): 115 pages.
- _____. (Review of) "Speciation and Geographic Variation in Black-tailed Gnatcatchers." Wilson Bulletin 101 (1989): 360-362.
- _____. "Supposed Northern Records of the Southern Fulmar." Western Birds 19 (1989): 121-124.
- Beehler, Bruce M. "Patterns of Frugivory and the Evolution of Birds of Paradise." Acta XIX Congressus Internationalis Ornithologici (1989): 816-826.
- Braun, M. J.; Lahn, S.; Boyd, A. L.; Kost, T. T.; Nagashima K.; and Gonda, M. A. "Molecular Cloning of Biologically Active Proviruses of Bovine Immunodeficiency-like Virus. Virology 167 (1988): 575-523.
- Brownell, R. L., and Mead, J. G. "Taxonomic Status of the Delphinid (Mammalia: Cetacea) Tursiops panope Philippi, 1895. Proceedings of the Biological Society of Washington 102 (2) (1989): 532-534.
- Browning, M. Ralph. "A New Subspecies of Carpodacus roseus. Bulletin of the British Ornithologists' Club 108 (4) (1988): 177-179.
- _____. "The Correct Name for the Olivaceous Cormorant, 'Maiague' of Piso (1658)." Wilson Bulletin 101 (1989): 101-106.
- _____. "The Type Specimens of Hekstra's Owls." Proceedings of the Biological Society of Washington 102 (2) (1989): 515-519.
- Carleton, M. D. "Systematics and Evolution." In Advances in the Study of Peromyscus (Rodentia). Edited by D. L. Kirkland and J. Layne. Texas Tech University Press, Lubbock, 367 pp. (1989): 7-141.
- Clapp, R. B. "A Black-headed Grosbeak Specimen from Virginia." Raven 57 (1986) [1988]: 1-3.
- _____. "A Specimen Record of the Fork-tailed Swift from the Marshall Islands." Elepaio 49 (1): 1-2.

- Clapp, R. B. "First Record of the Little Tern, Sterna albifrons, from Hawaii." Elepaio 49 (7) (1989): 41-46.
- Crombie, Ronald I., and Steadman, David W. "The Lizards of Rarotonga and Mangaia, Cook Island Group, Oceania." Pacific Science. (1986), 40 (1-4) (August 1988).
- Emmons, L. H. "Jaguar Predation on Chelonians." Journal of Herpetology 23 (1989): 311-314.
- _____. "Tropical Rain Forests: Why They Have So Many Species and How We May Lose this Biodiversity without Cutting a Single Tree." Orion Nature Quarterly (July 1989): 8-14. (Popular).
- Engbring, John, and Fritts, Thomas H. "Demise of an Insular Avifauna: The Brown Tree Snake on Guam." Transactions of the Western Section Wildlife Society 24 (1988): 34-37.
- Foster, M. S. "Preliminary Field Report." In Cerro de la Neblina, Resultados de la Expedición 1983-1987. Edited by C. Brewer-Carias. Editorial Sucre, Caracas, Venezuela. (1988). 922pp.
- Fritts, Thomas H. "The Brown Tree Snake, A Harmful Pest Species." U. S. Department of the Interior, Fish and Wildlife Service leaflet. (1988).
- _____. "The Brown Tree Snake, Boiga irregularis, A Threat to Pacific Islands." U. S. Department of the Interior, Fish and Wildlife Service Biological Report 88 (31) (September 1988): 36 + vi pp.
- Fritts, Thomas H.; Scott, N. J., Jr.; and Smith, B. E. "Trapping Boiga irregularis on Guam Using Bird Odors." Journal of Herpetology 23 (2) (1989): 189-192.
- Fuchs, Karlheinz H. P.; Ross, Charles A.; Pooley, A. C.; and Whitaker, Romulus. "Crocodile - Skin Products." In Crocodiles and Alligators. Edited by Charles A. Ross et al. Golden Press Pty. Ltd., Silverwater, Australia. (1989): 188-195.
- Gardner, A. L. "The Mammals of Parque Nacional Serrania de la Neblina, Territorio Federal Amazonas, Venezuela. In Cerro de la Neblina, Resultados de la Expedición 1983-1987. Edited by C. Brewer-Carias. Editorial Sucre, Caracas. (1988): viii + 922 pp.
- Gardner, A. L., and Creighton, G. K. "A New Generic Name for Tate's (1933) Microtarsus Group of South American Mouse Opossums (Marsupialia: Didelphidae). Proceedings of the Biological Society of Washington 102 (1) (1989): 3-7.
- Graves, G. R. "Phylloscartes lanyoni, a New Species of Bristle-tyrant (Tyrannidae) from the Lower Cauca Valley of Colombia." Wilson Bulletin 100 (1988): 529-534.
- _____. "Trans-Andean Population of the Large-headed Flatbill Ramphotrigon megacephala." Bulletin of the British Ornithologists' Club 108 (1988): 186-187.
- Graves, G. R., and Restrepo, D. Uribe. "A New Allopatric Taxon in the Hapalopsittaca amazonina (Psittacidae) Superspecies from Colombia." Wilson Bulletin 101 (3) (1989): 369-376.
- Handley, C. O., Jr. "Christmas Bird Count: Lewisburg, West Virginia (1987)." American Birds 42 (4) (1988): 829.
- _____. "Calipers." In The Guild Handbook of Scientific Illustration. Edited by E. R. S. Hodges. Van Nostrand Reinhold, New York. (November 1988): p. 37, Figures 2-19.

- Handley, C. O., Jr. "Illustrating Mammals." In The Guild Handbook of Scientific Illustration. Edited by E. R. S. Hodges. Van Nostrand Reinhold, New York. (November 1988): 357-376, 554-555, frontispiece and 28 figures.
- _____. Reviews of: Ecological and Behavioral Methods for the Study of Bats, edited by T. H. Kunz, Smithsonian Institution Press; America's Neighborhood Bats, by M. D. Tuttle, University of Texas Press. (1989). In Naturalist Review (Audubon Naturalist Society of the Central Atlantic States) (Spring 1989): 1.
- Heyer, W. Ronald. "On Frog Distribution Patterns East of the Andes." In Proceedings of a Workshop on Neotropical Distribution Patterns Held 12-16 January 1987. Edited by P. E. Vanzolini and W. R. Heyer. Academia Brasileira de Ciências, Rio de Janeiro. (1988): 245-273.
- Heyer, W. Ronald; Rand, A. Stanley; Cruz, Carlos Alberto Gonçalves da; and Peixoto, Oswaldo L. "Decimations, Extinctions, and Colonizations of Frog Populations in Southeast Brazil and their Evolutionary Consequences." Biotropica 20 (3)(1988): 230-235.
- Heyer, W. Ronald, and Vanzolini, P. E. "Introduction and Summary of a Workshop on Neotropical Distribution Patterns held 12-16 January 1987." In Proceedings of a Workshop on Neotropical Distribution Patterns Held 12-16 January 1987. Edited by P. E. Vanzolini and W. Ronald Heyer. Academia Brasileira de Ciências, Rio de Janeiro. (1988): 7-18.
- Heyer, W. Ronald., and Wolf, Alan J. "Physalaemus crombiei (Amphibia: Leptodactylidae), a New Frog Species from Espírito Santo, Brazil with Comments on the P. signifer group." Proceedings of the Biological Society of Washington 102 (2)(1989): 500-506.
- Houde, P., and M. J. Braun. "Museum Collections as a Source of DNA for Studies of Avian Phylogeny." Auk 105 (1988): 773-776.
- Houde, Peter, and Storrs L. Olson. "Small Arboreal Non-Passerine Birds from the Early Tertiary of Western North America." Acta XIXth Congressus Internationalis Ornithologici, volume 2 (for 1988): 2030-2036 (April 1989).
- Howe, J. C. "Oxygen Consumption Rate in Juvenile Scalloped Hammerhead Sharks (Sphyrna lewini) (Griffith and Smith): A Preliminary Study". Journal of Aquaculture and Aquatic Sciences 5 (2)(1988): 28-31.
- Iverson, J. B.; Ernst, C. H.; Gotte, S. W.; and Lovich, J. E. "The Validity of Chinemys megalocephala (Testudines: Batagurinae). Copeia (2)(1989): 494-498.
- James, Helen F.; Zusi, Richard L.; and Olson, Storrs L. "Dysmorodrepanis munroi (Fringillidae: Drepanidini), a Valid Genus and Species of Hawaiian Finch." Wilson Bulletin 101 (2)(June 1989): 159-179.
- Keener, P.; Johnson, G. D.; Stender, B. W.; Brothers, E. B.; and Beatty, H. R. "Ingress of Postlarval Gag, Mycteroperca microlepis (Pisces: Serranidae), through a South Carolina Barrier Island Inlet." Bulletin of Marine Science 42 (3)(1988): 376-396.

- Lindberg, G. U., and Krasnyukova, Z. B. Fishes of the Sea of Japan and the Adjacent Areas of the Sea of Okhotsk and the Yellow Sea. Part 4. Teleostomi XXIX. Perciformes 2. Blennioidei - 13. Gobioidae. Foreward to the English Edition by Bruce B. Collette. Scientific Editor, Bruce B. Collette. Smithsonian Institution Libraries and The National Science Foundation, NTIS TT-81-52179. pp. 1-602.
- McDiarmid, R. W., and Gorzula, Stefan. "Aspects of the Reproductive Ecology and Behavior of the Tepui Toads, Genus Oreophrynella (Anura: Bufonidae)." Copeia (2)(1989): 445-451.
- McDiarmid, R. W.; Paolillo, O.; and Cocroft, R. B. Preliminary field report - herpetology. "Amphibians and Reptiles from Cerro de la Neblina." In Cerro de la Neblina, Resultados de las Expedicion 1983-1987. Edited by Brewer-Carias. Editorial Sucre, Caracas, Venezuela. (1988): 665-670.
- McLellan, W. A. "Strandings: A Glimpse into the Lives of Marine Mammals." Whale Watcher, Journal of the American Cetacean Society 23 (2)(1989): 10-12.
- Mead, J. G. "Shepherd's Beaked Whale - Tasmacetus shepherdi Oliver, 1937." In Handbook of Marine Mammals, volume 4, River dolphins and the larger toothed whales. Edited by S. H. Ridgway and R. Harrison. Academic Press, London. (1989): 309-320.
- _____. "Bottlenose Whales Hyperoodon ampullatus (Forster, 1770) and Hyperoodon planifrons Flower, 1882." In Handbook of Marine Mammals, volume 4, River dolphins and the larger toothed whales. Edited by S. H. Ridgway and R. Harrison. Academic Press, London. (1989): 321-348.
- _____. "Beaked whales of the genus Mesoplodon." In Handbook of Marine Mammals, volume 4, River dolphins and the larger toothed whales. Edited by S. H. Ridgway and R. Harrison. Academic Press, London. (1989): 349-430.
- Medieros, Arthur C.; Loope, Lloyd L.; and James, Helen F. "Caves, Bird Bones and Beetles: New Discoveries in Rain Forests of Haleakala." Park Science 9 (2)(1989): 20-21.
- Mitchell, Joseph C., and Zug, George R. "Ecological Observations on the Gecko Hemidactylus brookii in Nepal. Amphibia-Reptilia 9 (1989): 405-413.
- Mooi, R.; Cannell, P. F.; Funk, V. A.; Mabee, P. M.; O'Grady, R. T.; and Starr, C. K. "Historical Perspectives, Ecology, and Tiger Beetles: An Alternative Discussion." Systematic Zoology 38 (2)(1989): 191-195.
- Munroe, T. A. and Mahadeva, M. N. "Symphurus callopterus (Cynoglossidae, Pleuronectiformes), a New Deepwater Tonguefish from the Eastern Pacific." Proceedings of the Biological Society of Washington 102 (2)(1989): 458-467.
- Olson, Storrs L. "Aspects of Global Avifaunal Dynamics During the Cenozoic." Acta XIXth Congressus Internationalis Ornithologici, volume 2 (for 1988): 2023-2029 (April 1989)
- _____. "Extinction on Islands: Man as a Catastrophe." In Conservation Biology for the Next Century. Edited by D. Western and M. Pearl. New York and Oxford: Oxford University Press. (July 1989): 50-53.
- _____. "David Douglas and the Original Description of the Hawaiian Goose." Elepaio 49 (8)(August 1989): 49-81.

- Olson, Storrs L.; Balouet, Jean Christophe; and Fisher, C. T. "The Owllet-nightjar of New Caledonia, Aegotheles savesi, with Comments on the Systematics of the Aegothelidae." Gerfaut 77 (for 1987): 341-352 (March 1989).
- Olson, Storrs L., and James, Helen F. "Fragile Outposts [Birds in Hawaii Before Man]" In Lords of the Air, by Jake Page and Eugene S. Morton. Washington, D.C.: Smithsonian Books. (1989): 110-115.
- Olson, Storrs L., and Kurochkin, E. N. . "Introduction: Symposium 35: The Early Radiation of Birds." Acta XIXth Congressus Internationalis Ornithologici, volume 2 (for 1988): 2022 (April 1989).
- Ota, Hidetoshi; Crombie, Ronald I.; Lue, Kuang-Yang; and Chen, Shyh-Hwang. "A Record of Gekko hokouensis (Reptilia: Sauria) from Lanyu Island, Taiwan, with Notes on Its Variation." Journal of Taiwan Museum 41 (1) (June 1988): 7-14.
- Pagels, J. F., and Handley, Jr., C. O. "Distribution of the Southeastern Shrew Sorex longirostris Bachman, in Western Virginia." Brimleyana 15 (1989): 123-131, 2 figures.
- Porter, Calvin A.; Crombie, Ronald I.; and Baker, Robert J. "Karyotypes of Five Species of Cuban Lizards." Occasional Papers, The Museum, Texas Tech University 130 (5 September 1989). Texas Tech University Press, Lubbock, Texas.
- Pooley, A. C., and Ross, Charles A. "Mortality and Predators." In Crocodiles and Alligators. Edited by Charles A. Ross et al. Golden Press Pty. Ltd., Silverwater, Australia. (1989): 92-101.
- Randall, J. E.; Johnson, G. D.; and Lowe, G. R. "Triso, a New Generic Name for the Antitropical, Western Pacific Serranid Fish Previously Known As Trisotropis dermopterus, with Comments on Its Relationships." Japanese Journal of Ichthyology 35 (4) (1989): 414-420.
- Ripley, S. Dillon. "If I Could Build My Own Museum." Symposium Proceedings of the Chicago Academy of Sciences (1988): 201-212.
- _____. "In Memoriam: Sálím Ali." The Auk 105 (1988): 772.
- _____. "First Sálím Ali Memorial Lecture." American Embassy New Delhi Publication (1988): 20 pp.
- _____. "In Memoriam: Yoshimaro Yamashina, 1900-1989)." The Auk 106 (4) (1989): 1802.
- Ripley, S. Dillon, and Beehler, Bruce M. "Ornithogeographic Affinities of the Adaman and Nicobar Islands." Journal of Biogeography 16 (1989): 323-332.
- Ripley, S. Dillon; Beehler, Bruce M.; and Krishna Raju, K. S. R. "Birds of the Visakhapatnam Ghats, Andhra Pradesh -2." Journal of the Bombay Natural History Society 85 (3) (1988): 90-107.
- Roberts, C. D. "A Revision of New Zealand and Australian Orange Perches (Teleostei: Serranidae) Previously Referred to Lepidoperca pulchella (Waite) with Description of a New Species of Lepidoperca from New Zealand. Journal of Natural History 23 (1989): 557-589.
- Ross, Charles A. "Weights of Some New Caledonian Birds." Bulletin of the British Ornithologists' Club 108 (2) (1988): 91-93.
- _____. "Probable Introduction of Lygosoma bowringi in Zamboanga City, Philippines. Herpetology Review 20 (1) (1989): 6.

- Ross, Charles A.; Alcala, Angel C.; and Sison, Rogelio V. "Distribution of Zaocys luzonensis (Serpentes: Colubridae) in the Visayan Islands, Philippines." Silliman Journal 34 (1-4)(1987) [1988]: 29-31.
- Ross, Charles A.; Blake, D. K.; and Victor, J. T. "Onions. Farming and Ranching." In Crocodiles and Alligators. Edited by Charles A. Ross et al. Golden Press Pty. Ltd., Silverwater, Australia. (1989): 202-213.
- Ross, Charles A.; Garnett, S.; and Pyrzkkowshi, R. (Editors). Crocodiles and Alligators. Golden Press Pty. Ltd., Silverwater, Australia. (1989): 240 pp.
- Ross, Charles A., and Magnusson, William Ernest. "Living Crocodilians." In Crocodiles and Alligators. Edited by Charles A. Ross et al. Golden Press Pty. Ltd., Silverwater, Australia. (1989): 58-73.
- Schwartz, Albert, and Jacobs, Jeremy F. "A New Subspecies of Celestus costatus (Sauria: Anguidae) from the Republica Dominicana." Journal of Herpetology 23 (2)(1989): 193-195.
- Smith, P. William, and Browning, M. Ralph. "An Erroneous Specimen Record of the Bahama Swallow from Florida." Florida Field Naturalist 17 (2)(1989): 40-41.
- Smith-Vaniz, W. F., Johnson, G. D.; and Randall, J. E. "Redescription of Gravila albomarginata (Fowler and Bean) and Cephalopholis polleni (Bleeker) with Comments on the Generic Limits of Selected Indo-Pacific Groupers (Pisces: Serranidae: Epinephelinae)." Proceedings of the Academy of Natural Sciences of Philadelphia 140 (2)(1988): 1-23.
- Springer, V. G. "Rotuma lewisi, New Genus and Species of Fish from the Southwest Pacific (Gobioidae: Xenismidae)." Proceedings of the Biological Society of Washington 101 (3)(1988): 530-539.
- _____. "Ecsenius: The World's Most Interesting Genus of Marine Fishes." Tropical Fish Hobbyist 37 (8)(1989): 38, 41-43, 46-52, and 37 (9): 50, 51, 53, 56, 58-61 (article split in two parts).
- Springer, V. G., and Collette, B. B. "Robert H. Gibbs, Jr., 1929-1988." Copeia 1 (1989): 245-251.
- Springer, V. G., and Gold, J. P. Sharks in Question, The Smithsonian Answer Book. Smithsonian Institution Press. (1989): 187 pages, 16 plates, frontispiece.
- Sullivan, Robert M.; Lucas, Spencer G.; Hunt, Adrian P.; and Fritts, Thomas H. "Color Pattern on the SelmaCryptodiran Turtle Neurankylus from the Early Paleocene (Puerca) of the San Juan Basin, New Mexico." Natural History Museum of Los Angeles County, Contributions in Science 41 (1988): 1-9.
- Tighe, Kenneth A. "Family Serrivomeridae." In Fishes of the Western North Atlantic, No. 1, Part 9, Vol. 1. Memoir Sears Foundation for Marine Research. (1989): 613-627.
- _____. "Family Serrivomeridae: Leptocephali." In Fishes of the Western North Atlantic, No. 1, Part 9, Vol. 1. Memoir Sears Foundation for Marine Research. (1989): 921-924.
- Tyler, James C.; Johnson, G. David; Nakamura, Izumi; and Collette, Bruce B. "Morphology of Luvarus imperialis (Luvaridae), with a Phylogenetic Analysis of the Acanthuroidei (Pisces)." Smithsonian Contributions to Zoology 485 (1989): 78 pages, 50 figures.

- Vari, R. P. "The Curimatidae, a Lowland Neotropical Family (Pisces: Characiformes); Distribution, Endemism and Phylogenetic Biogeography." In Neotropical Distribution Patterns: Proceedings of a Workshop, Rio de Janeiro, Academia Brasileira de Ciências. Edited by P. E. Vanzolini and W. Ronald Heyer. (1988): 313-348.
- _____. "A Phylogenetic Study of the Neotropical Characiform Family Curimatidae (Pisces, Ostariophysi)." Smithsonian Contributions to Zoology 471 (1989): iv + 71, figs. 1-45.
- _____. "Systematics of the Neotropical Characiform Genus Pseudocurimata Fernández-Yépez (Pisces: Ostariophysi)." Smithsonian Contributions to Zoology 490 (1989): 28 pages.
- Vari, R. P., and Vari, A. Williams. "Systematics of the Steindachnerina hypostoma complex (Pisces, Ostariophysi, Curimatidae), with the Description of Three New Species." Proceedings of the Biological Society of Washington 102 (2) (1989): 468-482, 11 figures.
- Weitzman, S. H., and Dalen, M. J. "Illustrating Fishes." In The Guild Book of Scientific Illustration. Van Nostrand Reinhold, New York. (November 1988): 302-320.
- Weitzman, S. H., and Fernandez, J. M. "A Tiny Species of Nannostomus New to Aquarists, from Venezuela and Brazil." Tropical Fish Hobbyist 37 (8) (1989): 74-78.
- Weitzman, S. H., and Menezes, N. A. "Necrológio George Sprague Myers (2/II/1905-4/X/1985)." Revista Brasileira de Zoologia 6 (1) (1989): 175-177.
- Weitzman, S. H.; Menezes, N. A.; and Weitzman, M. J. "Phylogenetic Biogeography of the Glandulocaudini (Teleostei: Characiformes, Characidae) with Comments on the Distributions of Other Freshwater Fishes in Eastern and Southeastern Brazil." In Proceedings of a Workshop on Neotropical Distribution Patterns Held 12-16 January 1987. Academia Brasileira de Ciências, Rio de Janeiro. Edited by P. E. Vanzolini and W. Ronald Heyer. (1988): 379-427.
- Williams, J. T. "Revision and Phylogenetic Relationships of the Blennioid Fish Genus Cirripectes." Indo-Pacific Fishes 17 (1988): 78 pages, 7 color plates.
- _____. "Book review of: Frogfishes of the World, by T. W. Pietsch and D. B. Grobecker. National Geographic Research 5 (3) (1989): 277-280.
- Wilson, D. E. "Bats." In Tropical Rain Forest Ecosystems. Edited by H. Lieth and M. J. A. Werger. Elsevier, Amsterdam. (1989): 356-382.
- _____. (Review of) Studies In Neotropical Mammalogy. Edited by B. D. Patterson and R. M. Timm. Journal of Tropical Ecology 5 (1989): 256.
- Wynn, Addison H. "Geographic Distribution: Typhlops ater." Herpetology Review 19 (3) (1988): 60.
- Zug, George R. "Biological Biography of Philippine Butaan. Gray's Monitor Lizard." Naturalist Review (Fall 1988): 6-7.
- _____. "Frogs and Toads of the World." Science Activities 25 (4) (1988): 44.
- _____. "Heteronota pelagica Girard, 1857 (currently Gymnodactylus, Cyrtodactylus, Nactus pelagicus; Reptilia, Sauria): Proposed Conservation of the Specific Name." Bulletin of Zoological Nomenclature 46 (1989): 38-40.

- Zug, George R. Careers in Herpetology. American Society of Ichthyology and Herpetology. (1989): 4 pages.
- _____. "Walking, Running, and Swimming." In Crocodiles and Alligators. Golden Press Tyt. Ltd.; Sydney. (1989): page 46.
- Zug, G. R.; Springer, V. G.; Williams, J. T.; and Johnson, G. D. "The Vertebrates of Rotuma and Surrounding Waters." Atoll Research Bulletin 316 (1988; 1989): 25 pages.
- Zusi, R. L. "A Modified Jaw Muscle in the Maui Parrotbill (Pseudonestor: Drepanididae). Condor 91 (3)(1989): 716-720.

Smithsonian Oceanographic Sorting Center

- Ferrari, F. "Evolutionary Transformations and Dollo's Law." Journal of Crustacean Biology 8 (1988): 618-619.
- _____. "Development Patterns in Numbers of Ramal Segments of Copepod Post-Maxillipedal Legs." Crustaceana 54 (1988): 256-293.
- Ferrari, F., and Dojiri, M. "The Calanoid Copepod Euchaeta antarctica from Southern Ocean Atlantic Sector MidwaterTrawls, with Observations on Spermatophore Dimorphism." Journal of Crustacean Biology 7 (1987): 458-480.
- Lemaitre, R. "Revision of the Genus Parapagurus (Anomura: Paguroidea: Parapaguridae), Including Redescriptions of the Western Atlantic Species." Zoologische Verhandelingen (253)(1989): 106 pp.
- Phillips, R., and Menez, E. "Seagrasses." Smithsonian Contributions to the Marine Sciences (34)(1988): 104 pp., 4 tables, 57 figures, 39 maps.

Smithsonian Marine Station at Link Port

- Bieler, Rudiger. "Phylogenetic Relationships in the Gastropod Family Architectonicidae, with Notes on the Family Mathildidae (Allogastropoda)." Malacological Review, Suppl. 4 (1988): 205-240.
- Buzas, Martin A.; Collins, Laurel S.; Richardson, Susan L.; and Severin, Kenneth P. "Experiments on Predation, Substrate Preference, and Colonization of Benthic Foraminifera at the Shelfbreak off the Fort Pierce Inlet, Florida." Journal of Foraminiferal Research. 19 (2)(1989): 146-152.
- _____. "The Effect of Quartz Versus Calcareous Sand on the Densities of Living Foraminifera." Micropaleontology 35 (2)(1988): 135-141.
- Byrne, Maria. "Oogenesis in the Ophiuroid Ophiolepis paucispina." In Proceedings of the Sixth International Echinoderm Conference. Robert D. Burke, Philip V. Mladenov, Philip Lambert, and Robert L. Parsley, Editors. Victoria/23-28 August 1987 (1988).
- _____. "Arm Structure of Ophiomyxid Brittle Stars: the Flesh is Not Necessarily Weak (Echinodermata: Ophiuroidea)." In Proceedings of the Sixth International Echinoderm Conference. Robert D. Burke, Philip V. Mladenov, Philip Lambert, and Robert L. Parsley, Editors. Victoria/23-28 August 1987 (1988).

- Byrne, Maria. "Ultrastructure of the Ovary and Oogenesis in the Ovoviviparous Ophiuroid Ophiolepis paucispina (Echinodermata)." Biological Bulletin 76 (1989): 79-95.
- Hanisak, M. D.; Littler, M. M.; and Littler, D. S. "Significance of Macroalgal Polymorphism: Intraspecific Tests of the Functional-Form Model." Marine Biology 99 (1988): 157-165.
- Hendler, Gordon, and Byrne, Maria. "Fine Structure of the Dorsal Arm Plate of Ophiocoma wendti: Evidence for a Photoreceptor System (Echinodermata: Ophiuroidea)." Zoomorphology 107 (1987): 261-272.
- Hendler, Gordon, and Peck, Robert W. "Ophiuroids Off the Deep End: Fauna of the Belizean Fore-Reef Slope." Proceedings of the Sixth International Echinoderm Conference. Robert D. Burke, Philip V. Mladenov, Philip Lambert, and Ronald L. Parsley, Editors. Victoria/23-28 August 1987 (1988).
- Hendler, Gordon, and Peck, Robert W. "Ophiuroid Skeletal Ontogeny Reveals Homologies Among Skeletal Plates of Adults: A Study of Amphiura filiformis, Amphiura stimpsonii and phiophragmus filigraneus (Echinodermata)." Biological Bulletin 174 (1988): 20-29.
- Hines, Anson H. "Fecundity and Reproductive Output in Two Species of Deep-sea Crabs, Geryon fenneri and G. quinquegens (Decapoda: Brachyura)." Journal of Crustacean Biology 8 (4) (1988): 557-562.
- Houbrick, Richard S. "Cerithioidean Phylogeny." Malacological Review Suppl. 4 (1988): 88-128.
- Kilar, John A., and Hanisak, M. Dennis. "Seasonal Patterns of Morphological Variability in Sargassum polyceratum (Phaeophyta)." Journal of Phycology. 24 (1988): 467-473.
- Kilar, John A., and Norris, James N. "Composition, Export, and Import of Drift Vegetation on a Tropical, Plant-Dominated, Fringing-Reef Platform (Caribbean, Panama)." Coral Reefs, 7 (2) (1988): 93-103.
- Kilar, John A., and McLachlan, J. "Effects of Wave Exposure on the Community Structure of a Plant-Dominated, Fringing-Reef Platform: Intermediate Disturbance and Disturbance-Mediated Competition." Marine Ecology Progress Series 54 (1989): 265-276.
- Kool, Silvard P. "Aspects of the Anatomy of Plicopurpura patula (Prosobranchia: Muricoidea: Thaidinea), New Combination, with Emphasis on the Reproductive System." Malacologia, 29 (2) (1988): 373-382.
- _____. "Phylogenetic Analysis of the Subfamily Thaidinae (Prosobranchia: Neogastropoda: Muricidae)." George Washington University, Washington, D.C. (1988).
- Kristensen, Reinhardt Moberg, and Higgins, Robert P. "Marine Tardigrada from the Southeastern United States Coastal Waters. I. Paradoxipes orgeliscoids n.g., n.sp. (Athrotardigrada: Halechiniscidea)." Transactions of the American Microscopical Society 108 (1989): 262-282.
- Littler, Diane S., and Littler, Mark M. "Marine Plants of the Caribbean. A Field Guide from Florida to Brazil. Smithsonian Institution Press, Washington, DC (1989): 263 pp.

- Littler, M. M.; Littler, D. S.; Norris, J. N.; and Bucher, K. E. "Recolonization of Algal Communities Following the Grounding of the Freighter Wellwood on Molasses Reef, Key Largo Marine Sanctuary." NOAA, Technical Memorandum SER. NOS MEND 12 (1987): 42 pp.
- Littler, Mark M., and Littler, Diane S. Chapter 2, pp. 29-56. "Structure and Role of Algae in Tropical Reef Communities." In C. A. Lembi and J. Robert Waaland, Editors. Algae and Human Affairs, Cambridge University Press, New York (1988): 509 pp.
- Manning, R. B., and Camp, D. K. "Additional Records for an Atlantic Reef Lobster, Enoplometopus antillensis, Lutken, 1865 (Crustacea: Decapoda: Enoplometopidae)." Proceedings of the Biological Society of Washington, 102 (2) (1989): 411-417.
- Manning, Raymond B. "Notes on Albuneid Crabs (Crustacea: Decapoda: Albuneidae) from the Central East Coast of Florida." Proceedings of the Biological Society of Washington. 101 (3) (1988): 626-632.
- Manning, Raymond B. "The Status of Callianassa hartmeyeri Schmitt, 1935, with the Description of Corallianassa xutha from the West Coast of America (Crustacea: Decapoda: Thalassinidea)." Proceedings of the Biological Society of Washington. 101 (4) (1988): 883-889.
- Manning, Raymond B., and Felder, Darryl L. "The Pinnixa cristata Complex in the Western Atlantic, with a Description of Two New Species (Crustacea: Decapoda: Pinnotheridae)." Smithsonian Institution Press, Washington, D.C. Smithsonian Contributions to Zoology (473) (1989).
- Norenburg, Jon L. Chapter 22. "Nemertina." In Introduction to the Study of Meiofauna. Edited by R. P. Higgins and H. Thiel. Smithsonian Institution Press, (1988): 287-292.
- _____. "Remarks on Marine Interstitial Nemertines and Key to the Species." Hydrobiologia 156 (1988): 87-92.
- Okamura, Beth. "The Influence of Neighbors on the Feeding of an Epifaunal Bryozoan." Journal of Experimental Marine Biology. 120 (1988): 105-123.
- Pawson, David L., and Miller, John E. "Thyone tanyspeira, a New Species of Sea Cucumber from the Southern Caribbean Sea (Echinodermata: Holothuroidea)." Bulletin of Marine Science. 42 (2) (1988): 310-316.
- Rice, Mary E. Chapter 32. Sipuncula. In Introduction to the Study of Meiofauna. Edited by R. P. Higgins and H. Thiel. Smithsonian Institution Press, (1988): 355-356.
- _____. Chapter 14. Sipuncula. In Reproductive Biology of Invertebrates. Vol. IV. Part A. Edited by K. G. and Rita G. Adiyodi. "Fertilization, Development, and Parental Care." Oxford and IBH Publishing Co., New Delhi, (1989): 263-280.
- Smith, Celia M., and Norris, James N. "Procarp Structure in Some Caribbean Species of Bostrychia Montagne, (Rhodophyta, Rhodomelaceae): An Important Systematic Character." Atoll Research Bulletin 312 (1988): 1-15.

NATIONAL PORTRAIT GALLERY

- Barber, James G. Alexandria in the Civil War. Lynchburg, Va.: H.E. Howard, Inc., 1988.
- Carr, Carolyn Kinder. "A Friendship and a Photograph: Sophia Williams, Talcott Williams, and Walt Whitman." The American Art Journal 21 (1) (1989): 2-12.
- Christman, Margaret C.S. The First Federal Congress 1789-1791. Washington, D.C., 1989.
- Fern, Alan M. (Foreword) On the Air: Pioneers of American Broadcasting by Amy Henderson, 1988.
- _____. (Foreword) Isamu Noguchi Portrait Sculpture by Nancy Grove, 1989.
- _____. (Foreword) The First Federal Congress 1789-1791 by Margaret C.S. Christman, 1989.
- Hart, Sidney, and David C. Ward. "The Waning of an Enlightenment Ideal: Charles Willson Peale's Philadelphia Museum, 1790-1820," Journal of the Early Republic, 8, 4 (Winter 1988): 389-418.
- Henderson, Amy. On the Air: Pioneers of American Broadcasting. Washington, D.C. Smithsonian Press, 1988.
- Miles, Ellen G. "Saint-Memin's Portraits of American Indians, 1804-1807." The American Art Journal 20 (1988): 2-33.
- _____. "American Portraits, 1720-1920: 'The Taste of the People.'" Three Hundred Years of American Painting: The Montclair Art Museum. New York: Hudson Hills Press (1989), 18-27.
- Miller, Lillian B. Review of Francis Calley Gray and Art Collecting for America by Marjorie B. Cohen in Journal of the Early Republic, 8, 3 (Fall 1988).
- _____. Review of Colonial American Portraiture: The Economic Social, Cultural, Philosophical, Scientific, and Aesthetic Foundations by Wayne Craven in The Virginia Magazine of History and Biography, 96, 4, (October 1988).
- _____. Review of Gilbert Stuart by Richard McLanathan in Maryland Historical Magazine, 84 (Summer 1989).
- _____. Review of Grand Illusions. History Painting in America by William H. Gerdts and Mark Thistlethwaite in The Journal of American History, 76, 2 (September 1989).
- Reaves, Wendy Wick. "The Prints". Antiques [Mount Vernon issue] (February 1989): 502-511.
- Stewart, Robert G. "Portraits of George and Martha Washington." Antiques (February, 1989): 474-479.
- _____. "James Earl: American Painter of Loyalists and His Career in England." The American Art Journal 20 (1988): 34-58.
- _____. "Auguste Hervieu, A Portrait Painter in Cincinnati." Queen City Heritage. The Journal of the Cincinnati Historical Society. 47 (1) (Spring, 1989): 23-31.
- _____. Review of "John Lewis Krimmel: An Artist in Federal America" by Milo M. Naeve in Pennsylvania Magazine of History and Biography 113 (3) (July, 1989)

- Stapp, William F. "America Seeks Its Destiny." Images America: A Panorama of History in Photographs. Washington, D.C.: Smithsonian Books, 1989.
- _____. "On Collecting: An Historical Perspective." 1989 International Fine Art Photography Expositions: Celebrating 150 Years of Photography. Washington, D.C.: Association of International Photography Art Dealers, 1989.
- _____. "The Nineteenth Century Portrait." The Art of Photography 1839-1989. Houston, Canberra and London: Museum of Fine Arts, Houston; Australian National Gallery; Royal Academy of Art, 1989.
- Tappert, Tara L. "Cecilia Beaux: A Career as a Portraitist." Women's Studies, an Interdisciplinary Journal 14 (4) (1988): 389-411. Academy of Arts, 1989.
- Voss, Frederick S. "Adalbert Volck: The South's Answer to Thomas Nast." Smithsonian Studies in American Art 2 (3) (Fall 1988).
- _____. "Ed Wynn" in Dictionary of American Biography, edited by John A. Garraty and Mark C. Carnes, supplementary vol. 8. New York: Charles Scribner's Sons.
- _____. "James Rorimer." Dictionary of American Biography, edited by John A. Garraty and Mark C. Carnes, supplementary vol. 8. New York: Charles Scribner's Sons.
- _____. Portraits of the American Law. Washington, D.C.: National Portrait Gallery and University of Washington Press (1988).
- Ward, David C. Review of A Gallery Collects Peales by Robert Devlin Schwarz in Pennsylvania Magazine of History and Biography, 113 (July 1989): 469-70.

Smithsonian Institution Traveling Exhibition Service

Books and Exhibition Catalogues

- Alward, Dale E., ed. Update 1989. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1988.
- Anglesea, Martyn. Portraits and Prospects: British and Irish Drawings and Watercolours from the Ulster Museum Belfast. Belfast: Ulster Museum, 1989.
- Keaveney, Raymond. Views of Rome: Watercolors and Drawings from the Thomas Ashby Collection in the Vatican Library. London: Scala Books, and Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1988.
- McElroy, Guy C., Richard J. Powell, and Sharon F. Patton. African-American Artists, 1880-1987: Selections from the Evans-Tibbs Collection. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, and Seattle: University of Washington Press, 1989.

Booklets

- Alward, Dale E., ed. Siteline, no. 30. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1988.
- Archambault, JoAllyn. Plains Indian Art: Continuity and Change. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1989.

- Davidson, Gail S. Training the Hand and Eye: American Drawings from the Cooper-Hewitt Museum. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1989.
- Inside Active Volcanoes: Kilauea and Mount St. Helens. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1989.
- Rubenstein, Harry R. Badges of Pride: Symbols and Images of American Labor. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1989.
- Silverman, Marci. Goya Etchings: Caprichos, Desastres and Tauromaquia. Washington, D.C.: Smithsonian Institution Traveling Exhibition Service, 1989.

Posters

- Badges of Pride: Symbols and Images of American Labor
- Inside Active Volcanoes: Kilauea and Mount St. Helens
- Views of Rome: Watercolors and Drawings from the Collection of the Biblioteca Apostolica Vaticana

OFFICE OF ELEMENTARY AND SECONDARY EDUCATION

- Eisendrath, Betsy, ed. "Going . . . Going . . . Gone? Tropical Rainforests--How They Work, What They Do for Us, What's Being Done to Them. . . ," Art to Zoo. October 1988.
- _____. "The Greatest Show on Earth--Starring Some of the World's Smallest Animals," Art to Zoo. April 1989.
- _____. "A Peek into Wardrobes: Men's and Women's Clothing and Social Roles, 1850-1920," Art to Zoo. May 1989.
- _____. "Strong Enough to Move Boulders, But It Can Float in Air. . . . What Is It? Water! How Its Properties Shape Our World," Art to Zoo. September 1989.
- Smith, Michelle. Carbons to Computers: The Changing American Office. Washington, D.C.: Smithsonian Institution, 1989.

OFFICE OF FOLKLIFE PROGRAMS

- Cadaval, Olivia, and Virginia Cassiano, eds. Tirarlo a la calle/Taking to the Streets: Viewing the Latino Community Through the Festival. Translated by Alicia Portnoy. Washington, D.C.: Institute for Contemporary Culture.
- _____. Introduction to Tirarlo a la calle/Taking to the Streets: Viewing the Latino Community Through the Festival. Translated by Alicia Portnoy. Washington, D.C.: Institute for Contemporary Culture.
- _____. "Adams Morgan: New Identity for an Old Neighborhood. In Washington at Home, ed. Kathryn Schneider Smith, pp. 227-259. Northridge, California: Windsor Publications, Inc.
- Kennedy, Richard with Lynn Martin. "Hawai'i: Cosmopolitan Culture at the Crossroads of the Pacific." Festival of American Folklife Program Book, ed. Frank Proschan, pp. 36-49. Washington, D.C.: Smithsonian Institution.
- Kurin, Richard. "Why We Do the Festival." Festival of American Folklife Program Book, ed. Frank Proschan, pp. 8-21. Washington, D.C.: Smithsonian Institution.
- _____. "Doctor, Lawyer, Indian Chief." Anthropology 88/89, ed. Elvio Angelonia, pp. 16-20. Guilford: Dushkin Annual Editions. (Reprint, 81/82)
- _____. "Making Exhibitions Indian: Aditi and Mela at the Smithsonian Institution." In Making Things in South Asia: The Role of Artist and Craftsman, ed. Michael Meister, pp. 196-209. Philadelphia: University of Pennsylvania.
- Portes de Roux, Heliana. "Creolization in the Caribbean." Festival of American Folklife Program Book, ed. Frank Proschan, pp. 66-79. Washington, D.C.: Smithsonian Institution.
- Proschan, Frank. "The Cambodian School: Houston, Texas." In Ethnic Heritage and Language Schools in America, ed. Brett Topping, pp. 29-47. Washington, D.C.: Library of Congress.
- _____, ed. Festival of American Folklife Program Book. Washington, D.C.: Smithsonian Institution.
- Seeger, Anthony. "Dualism: Fuzzy Thinking or Fuzzy Sets." In The Attraction of Opposites: Thought and Society in the Dualistic Mode, eds. David Maybury-Lewis and Uri Almagor, pp. 191-208. Ann Arbor: University of Michigan Press.
- _____. "Voices, Flutes, and Shamans in Brazil." The World of Music/Die Welt der Musik/le Monde de la Musique 30:22-40.
- _____. "Leadbelly and Woody: Musicians for the 80s." WETA Magazine 2(3).
- _____, ed. "Musics of Hawai'i: Anthology of Hawaiian Music." Smithsonian/Folkways 40016.
- _____, ed. Book Review Section of Yearbook for Traditional Music, vol. 20, publication of the International Council for Traditional Music, a UNESCO affiliated organization.
- _____, [Producer]. "Folkways: The Original Vision." Smithsonian/Folkways 40001.

- Spitzer, Nicholas. "Mardi Gras" and "Zydeco." In Encyclopedia of Southern Culture, ed. Charles R. Wilson. Chapel Hill: University of North Carolina Press.
- _____. "Down the Big Road with Boogie Bill Webb," booklet for "Boogie Bill Webb: Drinkin' and Stinkin'." Flying Fish 506.
- _____. [Co-producer] "Visions of Folkways Records" (18 min.), "Looking for New England" (15 min.), "Soviet Music" (10 min.), and "American Folklore Society Centennial" (12 min.). Washington, D.C.: Radio Smithsonian.
- _____, co-editor. "Folkways: The Original Vision." Smithsonian/Folkways 40001.
- Vennum, Thomas, Jr. Recording review of "Swiss Folk Music." Journal of American Folklore 101:233-35.
- _____. "American Indian Problems of Access and Cultural Continuity. Festival of American Folklife Program Book, ed. Frank Proschan, pp. 22-35. Washington, D.C.: Smithsonian Institution.
- _____. [Producer]. Recording and liner notes for "Ojibway Music from Minnesota: Continuity and Change." St. Paul: Minnesota Historical Society Press.
- _____. "Ojibway Ceremonial Drum Decor: Sources and Variations." In Circles of Tradition exhibit catalogue. Minneapolis: University of Minnesota Press.

OFFICE OF INTERDISCIPLINARY STUDIES

- Borden, Carla M., ed. Contemporary Indian Tradition: Voices on Culture, Nature, and the Challenge of Change (Washington and London: Smithsonian Institution Press, 1989).
- _____. Contemporary India: Essays on the Uses of Tradition (Delhi: Oxford University Press, 1989).
- Kotler, Neil G., ed. Science Education: A Challenge for Excellence in America's Future (Santa Barbara: ARCS Foundation, Inc., 1989).
- _____ and Paula M. Hirschhoff, eds. Completing the Food Chain: Strategies for Combating Hunger and Malnutrition (Washington and London: Smithsonian Institution Press, 1989).

OFFICE OF PUBLIC AFFAIRS

- The Torch. A monthly newsletter for Smithsonian employees, featuring profiles, question-and-answer columns about interesting jobs, previews of upcoming events, classified ads, and more. Circulation is 9,800, which includes staff and a list of interested individuals and organizations outside the Smithsonian. Editor: Mary Combs.
- Smithsonian Institution Research Reports. A newsletter that disseminates information on Smithsonian research to an audience of about 57,000 readers (10,000 scientists, libraries, museums, universities, journalists, and others and 47,000 Contributing Members of the National Associate Program). Published three times a year in 1989--Winter, Spring, and Autumn. Editor: Jo Ann Webb.
- Latino Resources at the Smithsonian. A 40-page bilingual brochure that tells readers what is available at the Smithsonian for members of the Hispanic community. Four-color cover; two colors inside. Writer: Gabriela Frings.
- Herencia Latina (Latino Heritage). A 30-second taped public-service announcement for television in Spanish intended to inform the Latino community of the relevance of the Smithsonian--its exhibits and resources--to the Latino community and to offer a brochure. Coordinator: Gabriela Frings.
- Faces of the Smithsonian. A 30-second taped public-service announcement for television intended to give a sense of the non-European-American cultural traditions that are found in exhibits and activities at the Smithsonian and to encourage viewers to learn about other cultures, as well as their own. Coordinator: Lilas Wiltshire.
- Wish You Were Here. A 30-second filmed public-service announcement for television directed especially to senior citizens and focusing on sightseeing, reminiscing, and relaxing in the museums. Coordinator: Lilas Wiltshire
- Once Upon a Time. A 30-second filmed public-service announcement for television with 20 children of diverse cultural backgrounds and Japanese American actor Pat Morita as on-camera narrator sending the continuing message "The Smithsonian is for Everybody." Coordinator: Lilas Wiltshire
- Caribbean Festival Arts. A 30-second filmed public-service announcement for television on the "Caribbean Festival Arts" exhibition highlighting both the exhibition and the special activities, with actress Madge Sinclair as on-camera narrator. Produced for the International Center. Coordinator: Lilas Wiltshire
- Smithsonian News Service. A feature-story service that provides four articles and appropriate art work each month to more than 2,000 daily and weekly newspapers and other media in the United States and abroad.

OFFICE OF TELECOMMUNICATIONS

Radio Smithsonian — 52 half-hour radio programs broadcast nationally

The partial listing of segments, which follows, contains material based on research done by Smithsonian curators or other personnel:

- "Squid Seminar" Experts from ten nations review the dilemmas of classifying these animals. (NMNH)
- "Uncovering Antietam" Historians and scientists discuss the discovery and excavation of a previously unknown Civil War burial site. (NMNH)
- "Aeronautical Developments of the 21st Century" A look at advances in the industry from aircraft to new airport designs. (NASM)
- "Warning: A Warning" Scientists and biologists from all over the world discuss the consequences of the greenhouse effect for biological diversity. (Castle)
- "Out of this World" A discussion of evidence that shows the existence of a planet orbiting a star other than our own sun. (SAO)
- "100 Years of National Geographic" A review of explorers, discoveries and landmark expeditions. (SITES)
- "The Nuts and Bolts of Robotics" Budding engineers study the impact of robotics and automation in a Smithsonian course for kids. (RAP)
- "A Jeweler's Eye" The story of collector Henri Vever who amassed a stunning array of Islamic paintings and manuscripts. (Sackler)
- "Inside the Halls of Justice" Constitutional scholars, historians and lawyers give insiders' views of life in the marble temple. (RAP)
- "Men and Women: Dressing the Part" A look at changes in fashion and our changing ideas about masculinity and femininity. (NMAH)
- "The Original Vision" Highlights of a new album of original Woody Guthrie and Huddie "Leadbelly" Ledbetter songs. (OFFP)
- "Sharks in Question" Discussion of a recently released Smithsonian book which cuts through the myth and misinformation about the most spectacular and efficient of the world's great predators. (SIP)
- "Duke Ellington, American Music" Highlights from a month-long celebration of the 90th anniversary of Ellington's birth. (NMAH)
- "100 Years of the Zoo" A tribute to the accomplishments of the National Zoological Park as well as plans for the future - a BioPark which would provide visitors with a better understanding of the interdependence of life. (NZP)
- "Eddie Palmieri and his Latin Jazz Octet" Music from the Grammy Award-winning band leader as presented in a Smithsonian concert. (RAP)
- "On the Air" A tribute to the pioneers of American broadcasting in a discussion tracing the impact of radio and television personalities on American culture. (NPG)
- "Memories of a Hidatsa Indian Family" Experiences of three American Indian families from 1840 - 1920 and how they coped with radical change without surrendering to it. (NMAH)
- "Sounding Forms" Performances on African musical instruments on view in a special exhibition. (NMAFA)

- "The Shopping Bag - Portable Art" Collectors and scholars review how the lowly bag has been elevated to the level of high art. (Cooper-Hewitt)
- "Flight Enters the Computer Age" Highlights of an exhibition tracing the development of the computer and aerospace industries from the 1940's. (NASM)
- "Mapping the Human Genome" James D. Watson, winner of a 1953 Nobel Prize as the pioneer codiscoverer of the DNA structure, discusses his human genome project at the National Institutes of Health. (RAP)
- "The Real McCoy" Highlights from a new exhibition tracing African American invention and innovation. (Anacostia)
- "Volcanoes: The Inside Story" Examining the scientific breakthroughs that have enabled volcanologists to understand how volcanoes work. (NMNH)
- "Fantastic Vessels, Fictional Voyages" A tour through an exhibition of three dimensional boats created by contemporary artists. (Renwick)

Here at the Smithsonian -- three-minute television features for national broadcast

The partial listing which follows contains material based on research done by Smithsonian curators or other personnel:

- "Warming Up to Reptiles" A look at how the National Zoo is leading the way in understanding and preserving our fine, cold-blooded friends, and presenting them to the visiting public. (NZP)
- "Crossroads of Two Continents" The diverse cultures of the Bering Strait region are featured in the first exhibition ever to be jointly organized by U.S. and Soviet scholars. (NMNH)
- "Engines of Change" A look at the transformation of American society brought on by the Industrial Revolution. (NMAH)
- "The Brush of Innocence" Watching Chinese painter Wang Yani as she demonstrates her extraordinary art in a special exhibition. (Sackler)
- "Aloha, Hawai'i!" Experiencing the rich and varied cultural traditions of our nation's 50th state. (OFFP)
- "The Portraits of Isamu Noguchi" The first retrospective of this Japanese-American sculptor's rarely seen portraits of famous Americans. (NPG)
- "Rocks in a Hard Place" The story of Smithsonian scientists in their search for meteorites in Antarctica. (NMNH)
- "Zoo Vets" A look at a day in the life of a veterinarian at the National Zoo. (NZP)
- "Black Wings" A chronicle of the important role of black Americans in the history of aviation. (NASM)
- "The Perpetual Man Ray" Regardless of the medium, the varied art of Man Ray is as vital and creative today as it was fifty years ago. (NMAA)

Film and Video Productions

This partial listing contains material based on research done by Smithsonian curators or other personnel:

- "The Earth in Our Hands" Narrated by Robert Redford, this one-hour film presents the pioneering work of the Smithsonian's Marine Systems Laboratory as its scientists recreate self-sustaining ecosystems. (NMNH)

- "The Smithsonian Institution" Produced for the Visitor Information and Associates Reception Center, this 20-minute orientation video presents general information on Smithsonian museums. (VIARC)
- "The Smithsonian Institution Touch Screen Interactive Video" Produced for the new Smithsonian Information Center in the Great Hall of the Castle, this 30-minute interactive videodisc program provides visitors with detailed information about each museum, tours, special activities for children, and restaurants. (VIARC)
- "American Abstraction 1930 - 1945: The Artists Speak" This 30-minute interactive videodisc accompanies an exhibition of abstract art from the Patricia and Philip Frost Collection. (NMAA)
- "Descubra el Smithsonian" A pilot series of two-minute television capsules was produced for Spanish-language TV to reach the nation's growing Hispanic community.
- "To Coexist: Diversity and Development" Produced for the U.S. Agency for International Development, this 30-minute program depicts how development professionals can take biological diversity into account in planning their projects.
- "Duke Ellington Interactive Video" An interactive videodisc was produced to accompany an exhibition on the 90th anniversary of Ellington's birth. (NMAH)
- "Preserving an Architectural Heritage: The Decorative Designs of Frank Lloyd Wright" This ten-minute film forms the central section of a SITES exhibition which will tour to five major U.S. cities. (SITES)
- "Maritime Hall Exhibition Videos" Nine short interactive videodiscs were produced to provide visitors an opportunity to learn the history, technology, and commercial importance of towboats on the Mississippi River. (NMAH)

SMITHSONIAN WORLD SEASON V PROGRAMS

- Program #501 - Zoo (January 24, 1990)
- Program #502 - A Moveable Feast (February 21, 1990)
- Program #503 - Tales of the Human Dawn (March 28, 1990)
- Program #504 - Nigerian Art-Kindred Spirits (May 2, 1990)
- Program #505 - The Quantum Universe (June 6, 1990)

Office of the Assistant Secretary for External Affairs

- Lovejoy, Thomas E., The Third World's environment: a global dilemma, EPA Journal 15(4):42-43, 1989.
- Lovejoy, Thomas E., Foreword to Fragile Lands of Latin America: Strategies for Sustainable Development (J.O. Browder, Ed.), Westview Press, Boulder, CO, 301 pp., 1989.
- Lovejoy, Thomas E., Amazonian Peril: Myth and Reality, Folha de Sao Paulo, March 23, 1989. (In Portuguese)

OFFICE OF MEMBERSHIP AND DEVELOPMENT

Stann, E. Jeffrey, and Anne Cleaver, eds. Voyage to the Southern Continent: The Letters of Lieutenant William Reynolds from the U. S. Exploring Expedition, 1838-1842 (Annapolis: Naval Institute Press, 1988).

OFFICE OF PRINTING AND PHOTOGRAPHIC SERVICES

- Talman, Hugh "An Examination of the Effectiveness of Various Toning Solutions on Black and White Silver Halide Emulsions" Proceedings, American Institute for Conservation - Photographic Materials Group, Winter Meeting; Kansas City, Missouri, March 4, 1989.
- Wallace, Jim. "An Examination Of Still Video Camera Use By Photojournalism Students In A Workshop Situation" Presented: Digital Photography and Editing Conference, Sunnyvale, California, February 10, 1989
- _____. "Electronic Color Separation of Video Disc Images". A joint research project with the Ohio University School of Visual Communication. Presented: Digital Photography and Editing Conference, Sunnyvale, California, February 10, 1989.
- _____. "An Examination Of The Use Of Commercial Scanners To Restore Faded Color Transparencies (Preliminary Report)" Proceedings, American Institute for Conservation, Photographic Materials Group, Winter Meeting; Kansas City, Missouri, March 4, 1989.

READING IS FUNDAMENTAL, INC.

RIF Newsletter. Published three times a year, the Newsletter reports on RIF activities nationwide. A technical assistance insert, addressing local projects' requests for information on how to motivate youngsters to read, is included in Newsletters sent to RIF projects. The Newsletter reaches 18,000 people throughout the United States and offshore territories.

The RIF Guide to Encouraging Young Readers (Doubleday, 1987). A sourcebook of activities, children's book suggestions, and resources for parents.

Reading Is Fundamental. A brochure describing the organization and its accomplishments.

"Parent Guide" Brochures. A series of eight brochures on the topics "Choosing Good Books for Your Children," "TV and Reading," "Reading Aloud to Your Children," "Upbeat and Offbeat Activities to Encourage Reading," "Teenagers and Reading," "Children Who Can Read, But Don't....," "Encouraging Soon-To-Be Readers," "Magazines and Family Reading."

Books to Grow On: A Parent's Guide to Encouraging Young Readers. A resource for parents of children from infancy to age eleven.

The RIF Handbook: How to Run a Successful Reading Is Fundamental Project. A technical assistance manual to help RIF volunteers organize and operate an effective reading motivation program. Includes an overview of RIF as well as sections on fundraising, book selection and ordering, and activities to motivate reading.

I Want You. A brochure to assist RIF projects in recruiting and training volunteers.

Reading Is Fun! Tips for Parents. A booklet offering suggestions on how to encourage children up to the age of eight to read.

Children's Bookshelf. An annotated list of 106 books for children up to the age of eleven.

Profiles. Descriptions of the publishers and distributors that serve RIF projects. The Profiles list special discounts and services offered by each supplier and are distributed annually to all projects.

When We Were Young: Favorite Books for RIF Kids, RIF Volunteers, and Readers of Renown. Forty-page list of favorite children's books. Includes personal recommendations of some 80 public figures.

Appendix 6

The Smithsonian Institution and Its Subsidiaries, September 30, 1989

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Optical and Infrared Astronomy

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(appointed February 1, 1989)

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Sr. Conservator

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NATIONAL MUSEUM OF NATURAL HISTORY

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Deputy Director	James C. Tyler (January 1989)
Acting Director	James C. Tyler (January 1988)
Acting Deputy Director	Starwyn G. Shetler (January 1988)
Assistant Director for Special Projects	Catherine J. Kerby
Assistant Director for Programs	Starwyn G. Shetler
Assistant Director for Development	T. C. Benson
Special Assistant to the Director	Margaret P. Anderson
Special Assistant to the Deputy Director	Jerome A. Conlon
Director, Quincentenary Programs	Herman J. Viola
Writer-Editor	Thomas R. Harney
Assistant Director for Administration	Mary Rakow Tanner
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Administrative Specialist	Nella F. Lloyd
Administrative Technician	Danielle Bielenstein
Management Analyst	Marsha Sitnik
Acting Assistant Director for Education	Laura McKie
Assistant Director for the Automatic Data Program	T. Gary Gautier
Assistant Director for Exhibits	Laurence P. O'Reilly
Assistant Director for Collections Management	Janet Gomon
Registrar	Margaret A. Santiago
Building Manager	Edward McCoy
Supervisory Museum Specialist, Scanning Electron Microscope Laboratory	Walter R. Brown

DEPARTMENT OF ANTHROPOLOGY

Chairman	Donald J. Ortner
Administrative Specialist	Carole Lee Kin
Collections Manager	Candace Greene
Public Information Specialist	Ann Kaupp

Handbook of North American Indians

General Editor	William C. Sturtevant
Managing Editor	Karla Billups
Production Manager	Diane Della-Loggia
Management Services Assistant	Melvina Jackson
Anthropologist	Joanna C. Scherer
Linguist	R. H. Ives Goddard III
Bibliographer	Lorraine H. Jacoby

Human Studies Film Archives

Assistant Director

Wendy A. Shay

National Anthropological Archives

Acting Director

Carmalita Ryan

Archivist

James R. Glenn

Assistant Archivist

Paula Fleming

Latin American Anthropology

Curator

Robert M. Laughlin

Associate Curator

William H. Crocker

Expert

Betty J. Meggers

North American Anthropology

Curators

William W. Fitzhugh

Dennis J. Stanford

William L. Merrill

William C. Sturtevant

Bruce D. Smith

Associate Curator

J. Daniel Rogers

Theresa A. Singleton

North American Indian Program

Director

JoAllyn Archambault

Old World Anthropology

Curators

Adrienne Kaeppler

William B. Trousdale

Ivan Karp

Gus Van Beek

Associate Curators

Mary Jo Arnoldi

Paul Taylor

Physical Anthropology

Curators

Donald J. Ortner

Douglas H. Ubelaker

Associate Curators

Douglas Owsley

Richard Potts

Linguistics

Curator

R. H. Ives Goddard III

Research Associates, Collaborators, and Affiliated Scientists

James M. Adovasio (Archeology)
Larry Banks (Archeology)
David Begun (Physical
Anthropology)
Michael D. Blakey (Physical
Anthropology)
Kathleen J. Bragdon
(Linguistics)
Alison S. Brooks (Archeology)
Ernest S. Burch, Jr.
(Archeology)
Aron Crowell (Archeology)
Edith Dietze (Ethnology)
Jean Paul Dumont (Ethnology)
John C. Ewers (Plains
Ethnology)
John Fisher (Archeology)
Don D. Fowler (Archeology)
George Frison (Archeology)
Bruno Frohlich (Physical
Anthropology)
Kathleen Gordon (Physical
Anthropology)
James Griffin (Archeology)
C. Vance Haynes (Archeology)
Brian Hesse (Archeology)
William Holm (Ethnology)
Neil C. Hughes (Archeology)
Bennie C. Keel (Archeology)
Jennifer O. Kelley (Physical
Anthropology)

Richard T. Koritzer (Physical
Anthropology)
Paulina Ledergerber
(Archeology)
Jerald T. Milanich
(Archeology)
Chris Nagle (Archeology)
Michael O'Brien (Archeology)
Michael Petraglia (Physical
Anthropology)
Stephen Potter (Archeology)
James Price (Archeology)
Bruce D. Ragsdale (Pathology)
Leslie Rankin-Hill (Physical
Anthropology)
Mary Elizabeth Reeve
(Ethnology)
Lucile E. St. Hoyme (Physical
Anthropology)
Abelardo Sandoval (Archeology)
Robert G. Schmidt (Geology)
T. Dale Stewart (Physical
Anthropology)
Maurizio Tosi (Archeology)
John Verano (Physical
Anthropology)
Alan Walker
(Paleoanthropology)
Paula Wapnish (Archeology)
Mildred M. Wedel (Archeology
and Ethnohistory)
Waldo R. Wedel (Archeology)
Rita Wright (Physical
Anthropology)

DEPARTMENT OF BOTANY

Chairman
Administrative Assistant
Collections Manager

Laurence S. Skog
Linda Moreland
George F. Russell

Senior Botanists

Mason E. Hale, Jr.

Mark M. Littler

Phanerogams

Curators

Dan H. Nicolson
Stanwyn G. Shetler
Laurence E. Skog

Dieter C. Wasshausen
John J. Wurdack

Associate Curators

Pedro Acevedo
Robert B. Faden
Vicki A. Funk

E. John Kress
Warren L. Wagner

Ferns

Curator

David B. Lellinger

Grasses

Curator

Paul M. Peterson

Cryptogams

Curators

James N. Norris

Harold E. Robinson

Associate Curators

Maria A. Faust

Jeanine Olsen

Palynology

Curator

Joan W. Nowicke

Plant Anatomy

Curator

Richard H. Eyde

Research Associates, Collaborators, and Affiliated Scientists

Katina Bucher (Algae)
George Bunting (Araceae)
Pamela Burns-Balogh
(Orchidaceae)
David Challinor (Forestry and
Tropical Biology)
Loren Coen (Marine Algae)
Jose Cuatrecasas (Flora of
Tropical South America)
Alva G. Day (Polemoniaceae)
Gerald F. Deitzer (Plant
Physiology)

James A. Duke (Flora of
Panama)
Patricia M. Eckel (Mosses)
Christian P. Feuillet
(Gesneriaceae)
Anthony Fletcher (Lichen)
F. Raymond Fosberg (Tropical
Island Plants)
Suzanne Fredericq
(Gracilariaceae)
Aaron Goldberg (Phanerogams)
Charles R. Gunn (Seeds)

Mark Edward Hay (Marine Algae)
 Otto Huber (Plant Ecology)
 Joseph H. Kirkbride, Jr.
 (Rubiaceae)
 Elbert L. Little, Jr.
 (Dendrology)
 Diane S. Littler (Marine
 Algae)
 Carlos Lopez-Ocana (Ecology)
 Alicia Lourteig (Neotropical
 Botany)
 Carlos Ochoa (Solanum)
 Kittie F. Parker (Compositae)
 John Pipoly (Plant
 systematics)
 Thompson Pizzolato
 (Agrostology)
 Mark Plotkin (Ethnobotany)
 Muriel E. Poston (Loasaceae)
 Robert W. Read (Neotropical
 Palms & Bromeliads)

Clyde F. Reed (Phanerogams)
 James Reveal (Polygonaceae)
 Amy Y. Rossman (Fungi)
 Velva E. Rudd (Leguminosae)
 Edith E. B. Scott (Bryophyta)
 Celia Smith (Algae)
 Lyman B. Smith (Flora of
 Brazil)
 Claudia Sobrevila (Tropical
 Plant Biology)
 Richard W. Spjut (Lichens)
 Frans A. Stafleu (Phanerogams)
 Bruce A. Stein (Neotropical
 Plants)
 William L. Stern (Plant
 Anatomy)
 Christopher E. Tanner (Marine
 Botanical Systematics)
 Edward E. Terrell
 (Phanerogams)

DEPARTMENT OF ENTOMOLOGY

Chairman
 Collections Manager
 Senior Scientist
 Administrative Assistant

Ronald J. McGinley
 Gary F. Hevel
 Karl V. Krombein
 Marie Westfall

Coleoptera

Curators

Terry L. Erwin

Paul J. Spangler

Hemiptera

Curator

Richard C. Froeschner

Hymenoptera

Senior Scientist
 Curator

Karl V. Krombein
 Ronald J. McGinley

Lepidoptera

Curators

John M. Burns
 Don R. Davis
 Robert K. Robbins

Associate Curator

Myriapoda and Arachnida

Associate Curator

Jonathan A. Coddington

Neuropteroids and Diptera

Curators

Oliver S. Flint, Jr.

Wayne N. Mathis

Research Associates, Collaborators, and Affiliated Scientists

Joachim Adis (Coleoptera)
Annette Aiello (Lepidoptera)
Donald W. Anderson (Coleoptera)
Edward W. Baker (Acarina)
Charles L. Bellamy (Coleoptera)
William F. Bickley (Diptera)
Robert W. Carlson (Hymenoptera)
J. F. Gates Clarke
(Lepidoptera)
Carleton M. Clifford
(Ixodoidea)
Margaret Collins (Orthoptera)
Hilary Cruz (Insects of Sri Lanka)
Terhune Dickel (Lepidoptera)
Lance Durden (Siphonaptera)
K. C. Emerson (Mallophaga)
Neal F. Evenhuis (Diptera)
John H. Fales (Lepidoptera)
Candida Feller (Diptera)
Douglas C. Ferguson
(Lepidoptera)
Richard H. Foote (Diptera)
John G. Franclemont
(Lepidoptera)
Raymond J. Gagne (Diptera)
Robert D. Gordon (Coleoptera)
E. Eric Grissell (Hymenoptera)
Ralph E. Harbach (Diptera)
Bruce A. Harrison (Diptera)
Thomas J. Henry (Hemiptera)
Yiau-Min Huang (Diptera)
James E. Keirans (Ixodoidea)
John M. Kingsolver (Coleoptera)
Lloyd V. Knutson (Diptera)
Paul M. Marsh (Hymenoptera)
Arnold S. Menke (Hymenoptera)
Mary Frances Mickevich
(Methodology/Theory)
Douglass R. Miller (Homoptera)
Scott E. Miller
(Microlepidoptera)

Charles Mitter (Lepidoptera)
Steve Nakahara (Thysanoptera)
David F. Nickle (Orthoptera)
Beth B. Norden (Hymenoptera)
Allen L. Norrbom (Diptera)
Paul A. Opler (Lepidoptera)
David L. Pearson (Coleoptera)
Philip Perkins (Coleoptera)
Robert V. Peterson (Diptera)
E. L. Peyton (Diptera)
Kenelm W. Philip (Lepidoptera)
Robert W. Poole (Lepidoptera)
John R. Reinert (Diptera)
Mark J. Rothschild (Homoptera)
Louise M. Russell (Homoptera)
Curtis W. Sabrosky (Diptera)
Silvia Santiago (Coleoptera)
Michael E. Schauff
(Hymenoptera)
Petra Sierwald (Arachnida)
Robert L. Smiley (Acarina)
David R. Smith (Hymenoptera)
M. Alma Solis (Lepidoptera)
Theodore J. Spilman
(Coleoptera)
George C. Steyskal (Diptera)
Manya B. Stoetzel (Homoptera)
F. Christian Thompson
(Diptera)
Robert Traub (Siphonaptera)
Katsuji Tsuneki (Hymenoptera)
George Vogt (Coleoptera)
Ronald A. Ward (Medical Entomology)
Richard E. White (Coleoptera)
Donald R. Whitehead
(Coleoptera)
Willis W. Wirth (Diptera)
Norman E. Woodley (Diptera)
David Wooldridge (Coleoptera)
Frank Young (Coleoptera)

DEPARTMENT OF INVERTEBRATE ZOOLOGY

Chairman
Purchasing Agent
Administrative Assistant

C. W. Hart, Jr.
Roland H. Brown
Martha V. Joynt

Crustacea

Curators

J. Laurens Barnard
Thomas E. Bowman
Roger F. Cressey
C. W. Hart, Jr.

Robert P. Higgins
Brian F. Kensley
Louis S. Kornicker
Raymond B. Manning

Echinoderms and Lower Invertebrates

Curators

Frederick M. Bayer
Stephen D. Cairns

David L. Pawson
Klaus Ruetzler

Mollusks

Curators

Richard S. Houbbrick

Clyde F. E. Roper

Associate Curators

M. G. Harasewych

Robert Hershler

Worms

Curators

Kristian Fauchald
W. Duane Hope

Meredith L. Jones
Mary E. Rice

Registry of Tumors in Lower Animals

Director
Biological Lab Technician
Biological Research Technician
Biological Lab Technician
Research Assistant
Museum Specialist

John Harshbarger
Sunthorn Sirivanakarn
Normal Wolcott
Kathy Price
Marilyn Slatick
Phyllis Spero

Research Associates, Collaborators, and Affiliated Scientists

J. Bruce Bredin	John E. Miller
Fenner A. Chace, Jr. (Emeritus Zoologist)	Isabel Perez-Farfante (Canet)
Steven Chambers	Esther C. Peters
Sing Chen Chang (Emeritus Zoologist)	Richard E. Petit
Elizabeth Chornesky	Marian H. Pettibone (Emeritus Zoologist)
Maureen E. Downey	Anthony J. Provenzano, Jr.
Joan D. Ferraris	Harald A. Rehder (Emeritus Zoologist)
Stephen J. Gardiner	Janet W. Reid
Terrence M. Gosliner	I. G. Sohn
Horton H. Hobbs, Jr. (Emeritus Zoologist)	Ronald B. Toll
Lipke B. Holthuis	Paul N. Turner
J. Ralph Lichtenfels	Michael Vecchione
Patsy McLaughlin	Geerhart J. Vermeij
Charles G. Messing	Austin B. Williams
	David K. Young

DEPARTMENT OF MINERAL SCIENCES

Chairman	Daniel Appleman
Administrator	Ellen Thurnau

Meteorites

Curator	Roy S. Clarke, Jr.
Associate Curator	Glenn J. MacPherson
Geochemist	Kurt Fredriksson

Mineralogy

Curator	John Sampson White
Associate Curator	Jeffrey Post
Crystallographer	Daniel E. Appleman

Petrology and Volcanology

Curators

Richard S. Fiske	Tom Simkin
William G. Melson	
Associate Curator	Sorena Sorensen

Physical Sciences Laboratory

Chemists

Eugene Jarosewich	Joseph A. Nelen
Electronics Technician	James E. Collins

Scientific Events Alert Network

Museum Specialist

Lindsay R. McClelland

Research Associates, Collaborators, and Affiliated Scientists

Vagn F. Buchwald (Meteorites)
Cathy Busby-Spera (Petrology)
Gary R. Byerly (Petrology)
Felix Chayes (Petrology and
Volcanology)
Robert T. Dodd (Meteorites)
John Filson (Petrology and
Volcanology)
Michael Fleischer (Mineralogy)
Martin Flower (Petrology and
Volcanology)

Edward Henderson (Meteorites)
Peter Levens (Mineralogy)
Brian H. Mason (Meteorites)
Paul B. Moore (Mineralogy)
Debra S. Stakes (Petrology and
Volcanology)
Geoffrey Thompson (Petrology
and Volcanology)
Othmar T. Tobisch (Petrology
and Volcanology)

DEPARTMENT OF PALEOBIOLOGY

Chairman

Curators Emeritus
(Not in Residence)

Administrative Assistant
Collections Manager
Deputy Collections Manager
Paleobiological Information
Specialist
Scientific Illustrator
Vertebrate Paleontology
Preparation Laboratory,
Supervisor
Acting Supervisor

Jack W. Pierce
Richard S. Boardman
G. Arthur Cooper
Porter M. Kier
Betty M. Lomax
Frederick J. Collier
Jann W. M. Thompson

Raymond T. Rye II
Mary A. Parrish

Arnold D. Lewis (Retired
5/31/89)
Frederic V. Grady
(Appointed 6/1/89)

Senior Scientists

Richard H. Benson
Alan H. Cheetham

Richard E. Grant
Daniel J. Stanley
Kenneth M. Towe

Geologist

Ian G. Macintyre

Curators

Walter H. Adey
Anna K. Behrensmeyer
Martin A. Buzas
Robert J. Emry
Nicholas Hotton III

Frances M. Hueber
Jack W. Pierce
Clayton E. Ray
Thomas R. Waller

Associate Curators

William A. DiMichele
Brian T. Huber (Appointed
11/21/88)

Scott L. Wing

Research Associates, Collaborators, and Affiliated Scientists

Richard B. Aronson
Jean M. Berdan
Annalissa Berta
Stephen J. Culver
Ted E. Delaca
Daryl P. Domning
Raymond C. Douglass
J. Thomas Dutro, Jr.
Ralph E. Eshelman
Karl W. Flessa
Thomas G. Gibson
Mackenzie Gordon, Jr.
Richard R. Graus
John M. Hackney
S. Taseer Hussain
Marcus M. Key, Jr.
Carl F. Koch
Sergius H. Mamay
Suzan Mazer

Jerry N. McDonald
Robert B. Neuman
William A. Oliver, Jr.
David B. Packer
John Pojeta, Jr.
Bruce Runnegar
William J. Sando
David E. Schindel
Judith Skog
Norman F. Sohl
I. Gregory Sohn
Steven M. Stanley
Hans-Dieter Sues
Joshua I. Tracey
Arthur D. Watt
Frank C. Whitmore, Jr.
Druid Wilson
Christopher Wnuk
Ellis L. Yochelson

DEPARTMENT OF VERTEBRATE ZOOLOGY

Chairman
Jr. Collections Managers

Richard W. Thorington,
J. Phillip Angle
Elyse J. Beldon
Linda K. Gordon
Susan L. Jewett
Charles W. Potter
Jeffery T. Williams
Sybil Descheemaeker

Administrative Assistant

Fishes

Curators

Victor G. Springer
Richard P. Vari

Stanley H. Weitzman

Associate Curator

G. David Johnson

Amphibians and Reptiles

Curators

W. Ronald Heyer

George R. Zug

Birds

Curators

Storrs L. Olson

Richard L. Zusi

Associate Curator

Gary R. Graves

Mammals

Curators

Michael D. Carleton

James G. Mead

Charles O. Handley, Jr.

Richard W. Thorington, Jr.

Office of the Secretary Emeritus

Secretary Emeritus

S. Dillon Ripley

Administrative Assistant

Mary Pacaro

Museum Specialist

Bruce M. Beehler

Secretary

Rachel A. Simpson

Research Associates, Collaborators, and Affiliated Scientists

Richard C. Banks (Birds)

Alfred L. Gardner (Mammals)

Jonathan J. Becker (Birds)

J. Whitfield Gibbons

Bruce M. Beehler (Birds)

(Amphibians and Reptiles)

Heraldo A. Britski (Fishes)

Michael Goulding (Fishes)

Eleanor D. Brown (Birds)

Richard Highton (Amphibians

Robert L. Brownell, Jr.

and Reptiles)

(Mammals)

Peter W. Houde (Birds)

John Cadle (Amphibians and
Reptiles)

Morton and Phyllis Isler
(Birds)

Peter F. Cannell (Birds)

Richard F. Kay (Mammals)

Roger B. Clapp (Birds)

Irving L. Kornfield (Fishes)

Bruce B. Collette (Fishes)

William H. Krueger (Fishes)

G. Ken Creighton (Mammals)

Roxie C. Laybourne (Birds)

C. Kenneth Dodd, Jr.

John M. Legler (Amphibians and
Reptiles)

(Amphibians and Reptiles)

Antonio Machado-Allison

Louise H. Emmons (Mammals)

(Fishes)

Carl H. Ernst (Amphibians and
Reptiles)

Francisco Mago-Leccia (Fishes)

Sara V. Fink (Fishes)

Joe T. Marshall (Birds)

William L. Fink (Fishes)

Linda R. Maxon (Amphibians and
Reptiles)

Mercedes S. Foster (Birds)

Roy W. McDiarmid (Amphibians
and Reptiles)

John G. Frazier (Mammals)

Thomas H. Fritts (Amphibians
and Reptiles)

Naercio A. Menezes (Fishes)

Joseph C. Mitchell (Amphibians
and Reptiles)
Thomas A. Munroe (Fishes)
Lynne R. Parenti (Fishes)
William F. Perrin (Mammals)
Allan R. Phillips (Birds)
Gregory K. Pregill (Amphibians
and Reptiles)
John E. Randall (Fishes)
Randall R. Reeves (Mammals)
S. Dillon Ripley (Birds)
Sentiel Rommel (Mammals)
Carol Ruckdeschel (Amphibians
and Reptiles)
Alan H. Savitzky (Amphibians
and Reptiles)
Albert Schwartz (Amphibians
and Reptiles)

Norman J. Scott, Jr.
(Amphibians and Reptiles)
William F. Smith-Vaniz
(Fishes)
Thomas W. Stafford, Jr.
(Birds)
David W. Steadman (Birds)
Kenneth J. Sulak (Fishes)
Stephen G. Tilley (Amphibians
and Reptiles)
Merrill Varn (Mammals)
Richard J. Wassersug
(Amphibians and Reptiles)
Marilyn Weitzman (Fishes)
John S. Weske (Birds)
Edward O. Wiley (Fishes)
James D. Williams (Fishes)
Don E. Wilson (Mammals)

SMITHSONIAN OCEANOGRAPHIC SORTING CENTER

Director
Administrative Assistant

Ernani G. Menez
Patricia K. Buckley

Marine Biologists

Frank D. Ferrari
Leslie W. Knapp
Rafael Lemaitre

Ernani G. Menez
Jon L. Norenburg

SMITHSONIAN MARINE STATION AT LINK PORT

Scientist-In-Charge
Administrative Assistant

Mary E. Rice
Joan L. Kaminski

Research Assistants

William D. Lee
Julianne Piraino

Sherry Anne Reed
Hugh F. Reichardt

MUSEUM SUPPORT CENTER

Director
Administrative Specialist
Data Administrator
Facility Manager
Assistant Facility Manager
Chief, Information Management
Section

U. Vincent Wilcox
Patti B. Young
Joan B. Andrews
Charles E. Dunn
George Bolden

David Bridge

NATIONAL PORTRAIT GALLERY

Director
Assistant Director for Collections
Assistant Director for History and
Public Programs
Executive Officer
Curator of Painting and Sculpture
Curator of Exhibitions
Associate Curator of Painting
and Sculpture
Curator of Prints
Curator of Photographs
Curator of Education
Editor of Publications
Chief, Design and Production
Keeper, Catalog of American
Portraits

Editor of the Charles Willson
Peale Papers and Historian of
American Culture
Librarian
Conservator
Senior Photographer

Registrar
Public Affairs Officer

Alan Fern
Carolyn K. Carr

Marc Pachter
Barbara A. Hart
Robert G. Stewart
Beverly J. Cox

Ellen Miles
Wendy Wick Reaves
William F. Stapp
Harry Jackson
Frances K. Stevenson
Nello Marconi

Linda Thrift
(appointed 1/15/89)

Lillian B. Miller
Cecilia Chin
CindyLou Molnar Ockershausen
Rolland White
(appointed 10/9/88)
Suzanne Jenkins
Sue Ann Kendall

OFFICE OF EXHIBITS CENTRAL

Director
Administrative Officer
Assistant Director/Chief of
Design and Editing
Assistant Director/Chief of
Production
Supervisor, Fabrication
Supervisor, Graphics Unit
Supervisor, Model Shop

Vacant
Eva Goodwin

Karen Fort

Walter Sorrell
Kenneth Clevinger
Patricia Burke
Ben Snouffer

OFFICE OF HORTICULTURE

Director (Acting)
Program Manager
Administrative Officer
Administrative Assistant
Landscape Architect
Greenhouse Manager
Grounds Manager

Kathryn R. Meehan
Vacant
Peter J. Nerret
Vacant
Paul H. Lindell
Barbara Faust
Kenneth Hawkins

OFFICE OF MUSEUM PROGRAMS

The staff listing below represents all staff who worked in the OMP during FY89. The Office began a reorganization in the second half of the year with subsequent staff changes.

October, 1988-April, 1989:

Jane Glaser	Director
Eleanor Coombs	Administrative Officer
Christine Murray	Secretary
Wendy Jessup	Workshop Coordinator
Susanne Harlandt	On-Site Workshop Coordinator
Artemis Zenetou	Workshop Coordinator
Charis Warchal	Workshop Assistant
Bruce C. Craig	Internships and Visiting Professionals Coordinator
Nancy Fuller	Native American Museums Program Coordinator
Gayle Edmunds	NAMP Program Assistant
Laura Schneider	Audiovisual Program Manager
Steven Cupp	Audiovisual Program Coordinator
Bettie Lee	Audiovisual Program Coordinator
Denise Yver	Audiovisual Program Assistant

April, 1989-September, 1989:

James E. Sims	Acting Director
Eleanor Coombs	Administrative Officer
Christine Murray	Secretary

Curriculum Programs

Theresa LaMaster	Curriculum Programs Manager
Bettie Lee	Workshops Coordinator
Heather Baker	Program Assistant

Professional Services

Bruce C. Craig	Professional Services Program Manager
Gayle Edmunds	Visitor Coordinator
Joe Nicely	Program Assistant

Publications Program

Nancy Fuller	Publications Manager
--------------	----------------------

SMITHSONIAN INSTITUTION TRAVELING EXHIBITION SERVICE

Administration

Director	Anna R. Cohn
Associate Director for Administration	Linda Bell
Budget and Accounting Services	Marie-Claire Jean
Staff Training	Allegra Wright
Office Manager	Dale Alward
	Kenneth D. Fenty

Exhibitor Relations\External Affairs

Program Research and Grants	Dee Bennett
Audience Survey Research	Claire Fronville
Public Relations	Liz Hill
Exhibition Scheduling	Carol Harsh

Program Services

Associate Director for Programs	Eileen Rose
Exhibition Organization	Anne Gossett
	Lori Dempsey
	Matou Goodwin
	Lesley O'Malley
Exhibition Interpretation	Myriam Springuel
	Laurie Trippett
	Fredrica Adelman
	Germaine Juneau
	Gail Kaplan
Exhibition Registration	Lee Williams
	Fredric Williams
	Viki Possoff
	Josette Cole
Exhibition Production	Betty Teller
	Betsy Hennings
	Crisley McCarson
	Meredith McPherson

Publications

Publications Director	Andrea Stevens
Editorial Services	David Andrews
	Melissa Hirsch

OFFICE OF THE ASSISTANT SECRETARY FOR PUBLIC SERVICE

Assistant Secretary
Deputy Assistant Secretary
Deputy Assistant Secretary/Media
Affairs
Administrative Officer
Executive Assistant
Special Assistant
Special Assistant
Program Specialist
Fiscal Assistant
Secretary
Secretary
Special Assistant for
Media Activities
Editor-in-Chief, Optical
Publishing
Special Advisor for
Telecommunications

Ralph Rinzler
James C. Early
Robert A. Dierker

Ernestine A. Potter
Mary Lynne McElroy
Margaret A.H. Bertin
Rosemary Leonard
Manjula Kumar
Carol F. Anderson
Annette C. Sukarloo
Pamela Deutsch
Andrew Ferguson

Glen Hoptman

Thomas H. Wolf

NATIONAL SCIENCE RESOURCES CENTER

Executive Director
Deputy Director
Director of Publications
Financial Officer
Outreach Consultant
Publications/Technology Specialist
Administrative Assistant
Program Assistant
Director, Science and Technology
for Children (STC) Project
Research Specialist, STC Project
Research Specialist, STC Project
Research Specialist, STC Project
Research Specialist, STC Project
Research Specialist, STC Project

Douglas M. Lapp
Sally G. Shuler
Kit Johnson
Shirley Ash
Olive Covington
Tim Falb
Toni Brady
Altoria Bell

Joe Griffith
Pat McGlashan
Seliesa Pembleton
Dorothee Goldman
David Hartney
Judy Grumbacher

OFFICE OF ELEMENTARY AND SECONDARY EDUCATION

Director
Deputy Director
Director of Outreach Programs
Publications Coordinator
Coordinator of Teacher Services
Writer/Editor
Career Awareness Coordinator
Career Awareness
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Jacqueline Cundiff
Esther Dagan
Dr. Charles Dane
Richard Davis
Amos S. Deinard, MD
Alain Derbier
David Dibner
Aaron Didier
Kathrine Dirks
Alfred Dohm
Dr. David Dorward
Dr. Henry Drewal
Harvey Duke

R. Dunnigan
Dr. Omotoso Eluyemi
Mrs. Sherman Euler
Carl H. Ernst
Pamela Ferrell
Michael Fleischer
Oliver S. Flint, Jr.
Dr. Barbara Frank
Aristides Frias
Frigga Gibbs
Sarah Jane Gillam
Margaret L. Gordon
Carolyn Hahn
Farhad Hakimzadeh
Thomas M. Hancock III
Prof. Victor E. Hanzeli
Lillian B. Hettling
Dr. Robert S. Hoffman
Harry Hoogstraal
Elton Louis Howe
John Hyltoft
Mike Irrifere
Minoru Imajima
Edwin K. Jaycox
W.A. Jayeoba
Norman G. Jensen
Antonio Nunez Jimenez
Heine Jockers
David Jones
Bill Karg
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Chantal Kozyreff
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Robert J. Lavenberg

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 Pierre Marly
 Nadia Martayan
 Mrs. James V. Martin
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 Dr. I. Rubinoff

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 Antonio Santangelo
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 Yvette Scheven
 Nick Schliapin
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 Oscar Flores Villela
 Dr. Carlo Violani
 Michael Ward
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Institutional Donors

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Department of the Army
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Musee Africain
Musee Barbier-Mueller
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Museu Paraense Emilio Goeldi
NMAH Archives Center
NMAH Department of Social and Cultural History
NMAH Division of Community Life
Nantucket Historical Association
Natural History Museum of Los Angeles County
New Orleans Museum of Art
Pretoria Art Museum
Santa Barbara Museum of Art
Schuck Sohne AG
Sea World
Simon & Schuster
Spelman College
Swaziland National Trust Commission
University of Nigeria
U. S. National Library of Medicine
Welland Canals Society
Whitney Museum of American Art

Anacostia Museum

Donors to the Collection

Jan Shelton Schwarz. Unidentified African-American Choral Group photograph.
Beth P. Wilson. Crispus Attucks Scroll.
Faith Powell. One Item of Sheet Music.
David Wellington. Portrait of unidentified African-American male found in the District Building.
Rebecca Ratcliff. Embroidered Tea Towel (or dish towel)

ARTHUR M. SACKLER GALLERY

Donors to the Collection

Rajinder K. Keith and Narinder K. Keith. Bridal hair ornament (Jhumar), gold, India, ca. 1890; in memory of their mother (S1989.1)
Mr. Luke Powell. Color photograph by Luke Powell (1946-), "Lavender Flowers near Maimana." (S1989.2)
Dr. and Mrs. Kenneth Robbins. Opaque watercolor on paper, "The Siege of Mathura by the Armies of Jarasandha," Nepal, late 18th C. (S1988.58)
Dr. and Mrs. C. W. Sprunt. Painting, ink and colors on paper, "Children Playing in the Snow," China, 1890-1900.

COOPER-HEWITT MUSEUM

Donors to the Collection

- Air France, Selection of "Concorde" catering equipment designed by Raymond Loewy for Air France, plastic, c. 1976. (1989-24-1-21) Accepted for study purposes: 101 plastic cups and dishes, plastic tote bag, 34 plastic glasses, two porcelain dishes and condiments.
- Aluminor Luminaires, "WO" halogen lamp, designed by Sacha Ketoff and Andre Lavigne, France, c. 1988 (1989-4-1)
- Anonymous, "Lunar Network" sculpture in two parts (bowl and base) by Concetta Mason, glass, USA, 1986. (1989-16-1a,b)
- Junichi Arai, openwork white scarf with bird design by Junichi Arai, Japan, 1988. (1989-14-1).
- The Avenue, "Rockets" length of screen-printed silk designed by Georgina von Etzdorf, England, 1987. (1989-8-1)
- John P. Axelrod, table or desk lamp by Russell Wright, spun aluminum and wood, mid 1930s. (1989-67-1)
- Konstanze Bachmann, "10 Years Iscar Self Grip 1977-1987 and Still the Classic Standard" calendar, Dan Resinger, USA. (1989-46-1)
- Boros Cotton, Ltd., three lengths of fabric by various designers printed by Boros. (1989-66-1-3)
- Torun Viviana Bulow-Hube, silver bracelet, Indonesia, 1959-60. (1989-59-1)
- Clarence House, "Diaghilev" warp printed silk from design by Yvonne Marchal, adapted for Clarence House, printed in France, 1986. (1988-114-1)
- "Pierrot" warp printed silk same as above. (1988-114-2) "Ghana" length of fabric, no. 31773/2-1c 10-5, USA, 1980s. (1989-55-1)
- Garth Clark and Mark del Vecchio, five-piece dinner service, glazed ceramic, Jeff Oestreich, USA, 1988. (1988-98-1-4)
- Garth Clark Gallery, "Bengali" bowl by William Underhill, bronze, 1988, USA (1988-109-1).
- Mrs. John F. Cole, embroidered panel, Art Nouveau design by Margaret Kostolany, Hungary, c. 1900. (1989-28-1) Embroidered panel with border of stylized flowers by Margaret Kostolany. c. 1900. (1989-28-2)
- Coquet Porcelainier à Limoges, 13 pieces of tableware designed by Marc Held in 1973, glazed porcelain, produced c. 1988. (1989-19-13)
- Rosemary Corroon, parure consisting of one bracelet, brooch, one pair of earrings, gold, onyx, pearls, French (?), c. 1860. (1988-107-1-3b)
- Creation Baumann, eleven lengths of fabrics by Creation Baumann. (1988-111-1-11)
- Eight samplebooks of swatches of Creation Baumann fabrics. (1988-111-12-19)
- Cristalleries de Saint-Louis, "Medici" footed vase, pressed glass with gothic design, French, c. 1840. (1988-108-1)
- Jacqueline Davidson, "Secticon" desk clock, phenolmelamine, brass designed by Angelo Mangiarotti, 1962, Italy/Switzerland. (1988-95-1)
- Mrs. Elaine Evans Dee, "The White House," illustration board model kit, USA, 1976. (1989-61-1)
- Jean Michel Delisle, "Archeologie Future" lamp designed by Christian Duc, patinated bronze and glass, France. (1989-68-1)
- Donald Deskey, 1502 drawings by the designer and one by Ruth Reve. (1988-101-1-1503) Also includes three 4-drawer filing cabinets and several packages of archival materials pertaining to Deskey works. Non-accessioned archival material for Library use.
- Robert Ebendorf Art Studio, set of three drawings for fireplace equipment by Clement E. Horton, USA, 20th century. (1989-32-1-3) Twenty-one drawings for andirons by Clement E. Horton. (1989-32-4-24) Drawing for lamp by Clement E. Horton. (1989-32-25) Additional archival material for artists files.

Jessica Feingold, batik panel landscape design, USA, early 20th century.
(1989-21-1)

FERMOB, "Face a Face" secretaire-designed by Pascal Mourgue, enameled steel,
France, 1987. (1989-22-1)

Helen Fioratti, five pieces of French and English wallpaper, early 19th century.
(1989-49-1-5)

Fujii & Co., Ltd. Two "Fisso" desk sets designed by Igarashi Studios, plastic and
metal, Japan, 1988. (1989-18-1-28)

Cora Ginsburg, roll of wallpaper, France, early 19th century. (1988-105-1) Two
fragments of wallpaper, France, early 19th century. (1988-105-2,3). One
length of wallpaper plus one fragment, France, early 19th century.
(1988-105-4,5)

Mrs. Julia Haiblen, two pair of shoe buckles, cut steel, c. 1920. (1989-69-1a-2b)

Mrs. Lucille Langdon Hamilton, four spoons made of coconut, ivory, coral, wood,
metal, and mother-of-pearl. (1988-85-1-4)

Hermès S.A., "Pippa" folding desk and stool designed by Rena Dumas and Peter
Coles, pearwood, leather, brass, France, 1985-87. (1989-36-1,2)

Ysabella Hincapie, printed scarf with U.N. seal and flags of nations, USA, 1957.
(1989-29-1)

William Hodge, "Signal Bag" beadwork bag, designed by William Hodge, Canada, 1988.
(1989-44-1)

Jarcho, Swarts, Yarles, Santilli, Ltd., two table lamps, glass shades on wood
bases, by Mark McDonnell, USA, 1985. (1988-82-1,2)

JG Furniture Systems, Inc., "The Sportes Mesh Chair," armchair designed by Ronald
C. Sportes, enameled steel, USA, 1984. (1989-57-1)

Faie J. Joyce, bequest, pair of side chairs by Rene Drouot, upholstered in
Aubusson tapestry after design by Madeleine Luka, France, c. 1939.
(1989-23-1,2)

Jacques Jugeat, Inc. "Berlioz" vase designed by Claude Bromet, glass, France,
1986. (1988-100-1)

Koch & Lowy, Inc., "Dove" lamp designed by Mario Barbaglia and Marco Colambo,
Italy, 20th century. (1989-60-1)

Martin Kramer, man's tobacco pouch, printed leather, Germany, 1865-70.
(1989-33-1)

Ed Krauss, two drawings of interiors by George Lahey, USA, 20th century.
(1988-103-1,2)

Kravet Fabrics, Inc., length of fabric, "Futura," USA. (1988-86-1)

Mr. and Mrs. Theodore A. Krieg, porcelain tea service with enamel and gilt decor,
Russian, Juznetson factory, late 19th century. (1988-96-1a-9b)

J. Russell Lynes, pop-up ad for Tavern Fürstenberg, The Hague. (1989-70-1)

Marimekko oy, six lengths of printed fabrics by various designers, printed in
Finland by Marimekko oy. (1988-110-1-6)

Mrs. C. R. Marshall, fragment of printed linen, Italy or Spain, late 16th-early
17th century. (1988-93-1).

Betty Ivy Martin, Crocheted bag, USA or Europe, 19th century. (1988-78-1).
Crocheted and knitted bag, USA, 19th century. (1988-78-2).

David McFadden, three-piece flatware set by Jean-Marie Patois, stainless steel,
France, 1980s. (1988-115-1-3)

Micio & Co., samplebook of 69 wallcoverings, "Micio & Co., Number Five", USA,
c. 1988. (1988-106-1(1-69).

Migeon & Migeon, six bangle bracelets, resin, by Migeon & Migeon, France, 1988
(1989-15-1-6).

Mont Blanc, "Target" wristwatch from Grafix line, designed by Michael Honack and
Joey Rayburn-Thomas, rubber strap and case, USA, 1988. (1989-43-1)

Josef Mrozec, cream jug, porcelain, Germany, c. 1930. (1989-47-1)

Naos Graphics, nineteen cut paper cards and one three-dimensional graphic designed
by Ted Naos, USA, 20th century. (1988-97-1-20)

Boras Wafveri AB, lengths of fabric "Populus" and "Pram" by Sven Fristedt, Sweden. (1988-87-1,2)

Wahlworks Textiles, "Golden Section," length of fabric and two color ways by Wendy Wahl, USA. (1989-45-1a-c)

Walker Group/CNI, eleven drawings; designs for Park Regency Condominium, in Houston, Texas by Venturi, Rauch, and Scott Brown, USA. (1988-104-1-11)

Page Williams, sample of the construction of tapp-lace, USA, 1900s. (1989-56-1)

William Woolfenden, Side chair and lounge chair of corrugated cardboard and masonite by Frank O. Gehry, USA, 1970. (1988-79-1,2)

Zojirushi Corp. & Toyoda Gosei Co. Ltd., "Cubic" Bar set by Hitoshi Oshima, plastic, Japan, c. 1988. (1989-27-1-3b). Same as above in different color. (1989-27-4-6b)

ZOO-INK, five samples of fabrics by Alan Grinberg of ZOO-INK. (1988-113-1-5)

Zuber & Cie, four panels of wallcovering "Les Falaises" silk screen by Alain Le Foll, France, 1976. (1989-26-1-4)

FREER GALLERY OF ART

Donors to the Collection

Mr. Robert H. Barton. Dish; pottery, Izumo ware; Japanese, Meiji period, 1868-1912.

Ms. Louise A. Cort. Seventeen shards; pottery; Japanese; Takatori ware, Uchigaiso kiln.

Mr. Dean Frasc  . Twenty-four pieces of Thai pottery (1989.32-.56). Twenty-three pieces of Vietnamese pottery (1989.10-.31). Seven pieces of Chinese pottery (1989.4-.9).

Mrs. Lucile Seaman Lamey. European shape teapot, pottery, Japan, Satsuma style, datable to 1904; in memory of her parents, Professor and Mrs. A. E. Seaman

Mr. Stanley J. Love. Hanging scroll painting, anonymous, "Lu Dongbing Subduing a Demon"; China, Zhe School, 14th-15th C.

Mr. and Mrs. LaRue Lutkins. Wardrobe with doors, shelves and drawers, huang-hua-li wood, China, Ming-Ch'ing dynasty, 17th C. (1989.57); armchair with woven reed seat, back splat of burl wood, China, 17th C. (1989.59); cabinet with doors and shelf, huang-hua-li wood, China, 17th C. (1989.58).

Mrs. Annemarie Pope. Carved wooden shop sign for a ceramics dealer, Japan.

Mrs. Karol Kirberger Rodriguez. Bottle, underglaze cobalt decoration, ceramic, China, Ming dynasty, early 17th C. (1989.1); Porcelain platter, underglaze cobalt decoration, ceramic, Japan, early 17th C. (1989.2); and porcelain kendi, underglaze cobalt decoration, China, Ming dynasty, early 17th C.

Mrs. S. L. Tesone. Set of four paintings on paper, "Tales of Genji," Japan; set of four paintings on paper, battle scenes, Japan.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Donors to the Library

Olga Hirshhorn, Washington, D.C.

HIRSHHORN MUSEUM AND SCULPTURE GARDEN

Donors to the Collection

Robert Brown Gallery. Painting by Oliveira Cesar (89.1).

Dr. Joseph A. Chazen. Mixed media on glass by Howard Ben
Tre (88.38).

Charles Cowles. Collage on fiberboard by Wallace Berman
(88.31).

Harry Kahn. Etching on paper by Dorothea Rockburne (88.32).

Estate of Boris Lovet-Lorski. Sculpture by the artist
(89.11).

Philip Sherrod. Painting by the artist (88.42).

Smithsonian Resident Associate Program. Serigraph by Willem
De Looper (89.10).

Estate of Raphael Soyer. Drawings on paper in five
sketchbooks (88.33-88.37).

NATIONAL AIR AND SPACE MUSEUM

Donors to the Collections

Avirex, USA. One leather flying coat currently used by the USAF.

Mr. Charles Baptie. Oil Painting by David Shepherd, entitled: Capital Airlines Viscount Flying over New York City.

Estate of Ralph S. Barnaby. Collection of: Two Early Bird medals, three Early Bird pins, two Early Bird plaques, one Early Bird cap, one Early Bird metal stamp, two World War I United States Victory medals, one United States Discharge pin, one Frank Lahm medal, one United States World War I pilot's badge, one silver Aero Show trophy cup, National Soaring Museum patch and sticker, and one Harris Hill Soaring Corporation sticker.

Ms. Louise Beatty. Early Bird metal stamp emblem.

Ms. Elizabeth Beauregard. 20 piece women's uniform, Customer Service Manager, PEOPLEExpress c. 1986.

Ms. Jeanette Turne Bowher. Stitchery, Winter's River.

Canadian War Museum. Two Lewis aircraft machine gun drums.

Carnegie Institution of Washington. Slide rule with case.

Mr. Edwin G. Collen. Royal Air Force aircraft bubble sextant used in World War II.

Cray Research, Inc. Cray 1 super computer processor.

Dai Shucheng, Shanghai Aerobatic Troupe. Two boomerangs, two bladed used by troupe.

Ms. Natale J. Donato. Martin 130 China Clipper wood model aircraft.

Professor Michael J. Flack. Color print entitled L'ascension de Vincent Lonardivenititen a Londres en 1784 by Ch. Dupont, V. Levallois ed. Paris 1790.

Ford Aerospace & Communications Organization. Intelsat V, scale model satellite.

Mr. Gordon Friang. Nine pieces of United States Army, World War I clothing.

Mr. Paul E. Garber. Four Japanese aircraft instruments of World War II vintage.

General Services Administration. Lycoming aircraft reciprocating engine.

Mr. Monte F. Graham. AEF footlocker, two canteens, personal papers and various medals.

Grid Systems Inc.. Grid compass II, on board computer for Space Shuttle.

Mrs. John J. Ide. Two eighteenth century balloon commemorative boxes made of tortoise shell. One oil painting by Eduard Soussa, entitled: Portrait of John J. Ide.

Indiana University of Pennsylvania, Physics Department. Saturn launch computer cabinets with core memory planes and transistorized circuit boards used as units with the RCA 110 A digital computer.

International Telecommunications Satellite Organization. Intelsat IV, scale model satellite.

Mr. Ira Milton Jones. Miniature World War I Overseas Flyer's Association Trophy.

E. Thomas Magoffin. Laffayette Escadrille commemorative medal and Quiet Birdman membership card, (metal).

Mr. Frank X. Marsh. Mitchell U-2 Superwing kit built flying wing aircraft.

McDonnell Douglas Astronautics. United States space station model and space shuttle orbiter model.

Miss Alberta Meyer. Two World War II aircraft food containers.

Mr. Robert C. Mikes. Microphone T-17 used on a B-26 aircraft.

Ministat de France, Romainia. Romainian c. 1940, pilot's cap, badge, trousers, and coat.

Monterey Park Police Department through Captain Joseph A. Santoro. Ultraflight Lazair SS EC ultralight type aircraft.

Mr. Greg Mort. Watercolor, entitled: Year of the Comet.

NASA, Johnson Space Center. HP-41 handheld calculator with pouch. Two emergency breathing apparatus. One 16 mm data acquisition camera.

Northrop Corporation. B-2 bomber aircraft wood and plastic model.

Northwest Airlines. McDonnell Douglas Aerospace plane model.

Pepsi-Cola Company through Rebecca Madeira. One painting of Christa McAuliffe by Mel Bolden.

Mr. Robert W. Pfeiffer. One German World War II aviator leather helmet.

Mr. John Piccard. Fabric from "Century of Progress" balloon.

Mr. Charles T. Preston. Fourteen pieces of aircraft radio equipment.

Lt. Commander James A. Quinlin. Black and grey American Airlines wool bootie.

Mrs. Stephanie L. Sands. 37 piece women's uniform, Pan American Purser, c. 1984-87.

Captain William E. Scarborough, USN (ret.). Consolidated PBV-1 Catalina metal promotional aircraft model.

Mr. Arlo E. Schroeder. Grumman TBF-1C Avenger model aircraft.

Mr. Zay Smith. United Airlines flight calculator.

Smithsonian Institution, National Air and Space Museum, Office of Volunteer Services. Four letters to Paul E. Garber that are signed by astronaut Mary Cleave and carried aboard the space shuttle in May 1989.

Smithsonian Institution, National Museum of American Art. Two lithographs by Paul Nash, entitled: Moonlight Voyage, Hampden Flying Above the Clouds and The Raiders on the Moors.

Mr. John A. Sproston. Oil painting, entitled: Racing the Front.

Swiss Air Force Museum. One de Havilland Ghost 48 Mk I turbojet engine.

Textron Lycoming. Avco Lycoming PLF1A-2 high bypass turbofan engine.

United Airlines. United Airlines terminal sign.

United States Air Force, Reese Air Force Base. Terrain board and remote camera mechanism associated with terrain board.

United States Air Force, Wright-Patterson Air Force Base. Lockheed C-130A, Hercules transport aircraft.

United States Army Fort L. Wood Museum. One Luftwaffe fur-lined coat and one Luftwaffe fur-lined cap with eagle insignia.

United States Marine Corps Air Ground Museum. Three Soviet Shavak aircraft guns.

United States Navy, David Taylor Research Center. Three wind tunnel dirigible wood models.

United States Navy Department. Five World War II recognition models.

United States Navy, Naval Air Systems Command. McDonnell Douglas F-4S Phantom II aircraft.

Mrs. R. Kimberling Winters. NARCO superhomer VHT-3 aviation radio superhomer VHT-3 aviation radio transmitter.

Mr. Walter Wright. Acrylic painting, Toward the Summit.

Yerkes Observatory. Flown V-2 spectrograph camera.

Ms. Vera Zorn and Mr. Eugene A. Studenski. Leather flying jacket, helmet, boots and doll mascot.

Donors to the Information Management Division

1361st Audio Visual Sqd.: group photograph of 20th Air Force commanders meeting with Brigadier General Roger Ramey, 1945.

Air France: certificate commemorating the Air France Concorde dedication at Dulles International Airport, April 16, 1989.

Mr. Glenn D. Anderson: booklet promoting the Consolidated Model 14 "Husky Junior" aircraft, 1928.

Mr. Horace Alter: 3 cu. ft. of aerospace design materials relating to Convair and Lockheed, 1941-1970s.

Mr. Jeff Asner: War Department technical manual number TM 1-205 entitled Air Navigation, November 25, 1940.

Mr. Walter G. Bailey: copy of Aircraft Mechanics, Inc., undated.

Dr. William J. Ballard: material related to Paramount Aircraft and that firm's chief designer, Walter James Carr, ca. 1920s-1930s.

Mr. Charles Baptie: Pratt and Whitney engine handbook detailing the Wasp and Hornet engines, 1924.

Mrs. Louise Beatty: photographs, newsclippings, and correspondence related to the career of aviator George Beatty, ca. 1910-1928.

Mr. J. Ted Beebe: memorabilia related to James H. "Jack" Knight, an early airmail and commercial airline pilot, ca. 1930s-1940s.

Mr. John Berendt: blueprint and photocopies showing engine mount structure for the Fairchild 24 Ranger 6-440-C5 engine, 1943.

Mrs. John D. Bick: memorabilia related to World War I aviator Robert McKnight, ca. 1918.

Mr. & Mrs. Warren M. & Catherine C. Bodie: 101 aviation photographs and 109 negatives of aviation photographs, 1928-1977.

Mr. Michael W. Bourguin: 14 drawings of the Mitchell U-2 Superwing, 1980.

Col. Eduard Brandt: three Spencer Aircraft Engine crank case drawings, June and July, 1940.

Mr. A. Raymond Brooks: photographs, documents, and other memorabilia related to the aviation career of A. Raymond Brooks, 1910-1988.

Mr. August E. Brunsman: nine tape recordings of interviews with relatives of and others familiar with Wilbur and Orville Wright, 1986-1988.

Mr. Henry F. Colvin, III: copy of a postal telegram to Fred Colvin from Charles A. Lindbergh, May 26, 1927.

Mr. Doug Connell: photograph of early aviator Hugh Armstrong Robinson, October 17, 1911.

Mrs. Evelyn Curtis: correspondence, logs, photographs and other memorabilia related to John S. Curtis, 1929-1985.

Department of Aeronautics, NASM: airline timetables and informational brochures, 1973-1988.

Department of Aeronautics, NASM: photographs, documents, and correspondence related to Elton R. Silliman and Pan American Airways, 1930-1982.

Department of Aeronautics, NASM: C.A.S.A. Spanish technical manual, undated.

Department of Aeronautics, NASM: drawing of the man-powered aircraft G.A.L.M.P. A.G. 520, May 23, 1965.

Department of Space History, NASM: color photographs of the Apollo-Soyuz, 1970s.

Department of Space History, NASM: drawings of an anthropomorphic android used for testing space suits, 1964.

Mr. Herb Desind: two photographs, one of a small astronomy satellite and one showing OGO-2 on Thor-Agena D, undated.

Dover Air Force Base: over-sized color photograph of the first all-woman C-5 flight crew, March 29-April 4, 1988.

Mr. Robert F. Dreesen: seven photographs taken at the Bealeton Flying Circus, Bealeton, Virginia, 1984-1985.

Mr. Leo P. Driessen: photograph of Charles A. Lindbergh in the cockpit of a Lockheed P-38 Lightning at Nadzab, New Guinea, 1944.

Dryden Air Force Base: drawings, schematics, and other documentation related to the HiMAT radio controlled model aircraft, 1976-1981.

Mr. Phillip Edwards: two posters, one commemorating 75 years of U.S. Naval Aviation, one of the Bell/Boeing V-22 "Osprey", undated.

Mr. Joseph Elbert: 33 patent letters and associated material for the inventions of Frank G. Manson, 1931-1955.

Mr. Ariel Fabius: 18 photographs of Uruguayan aircraft, 1929-1973.

Fairchild Industries: 242 cu. ft. of corporate records documenting the history and evolution of the company, 1919-1980.

Mr. Ian Flowers: seven photographs of Charles and Anne Morrow Lindbergh with their Lockheed Sirius aircraft, October 1931.

Mr. Peter Foster: news clippings of setting the 1988 amphibian altitude record, 1988.

Fort Monmouth, United States Army: technical manuals for military electronic equipment, 1940-1970.

Fort Sill Museum: 23 photographs related to aviation history and development, undated.

Ms. Helene S. Francis: photographs taken by Gifford E. Francis in Europe during World War I, 1918-1919.

Ms. Pamela French: 79 official U.S. Army photographs taken by Charles Barber, 1914-1918.

Mr. J. Norman Fresh: blueprints, photographs, and other material related to naval aviation at the Washington Navy Yard, 1881-1968.

Mr. Kevin Friel: newspaper articles concerning early aviation in Philadelphia, PA, October 1919-May 1920.

Mr. Edward Frosdick: six photographs, four of which show Amelia Earhart and her Lockheed Electra, 1936-1937.

Mr. Robert Fulton: two tape recordings of interviews with Robert Fulton conducted by Bernie Maggin, December 8, 1988.

Mrs. Peggy Gardner: material concerning the Concorde supersonic transport aircraft, 1988 and undated.

Mrs. Kathryn Gasker: six color slides of emergency transport helicopters taken at Kennedy Children's Hospital, Cambridge, MA, 1970.

Mrs. R.S. Goff: booklet prepared for a dinner honoring Mrs. Minta Martin on her 85th birthday, January 15, 1949.

Mr. Marvin M. Green: newspaper article concerning WWI "ace" George A. Vaughn as well as his autograph, April 29, 1989 and undated.

Mr. Manfred Griehl: 11 photographs of the Junkers Ju-38-G, Ju-52, Ju-290 and the Messerschmitt Me-109G, undated.

Mr. Tom Harnish: four color photographs of a Beech Travel Air aircraft, 1988.

Ms. Bernice Falk Haydu: scrapbook detailing the lives and training of Women's Air Force Service Pilots, 1942-1944.

Mr. James A. Hedgpeth, Jr.: 75 photographs, primarily aerial reconnaissance, of World War II bombings of France and Cologne, 1944.

Mr. Frank Hempstead: "Vin Fiz" advertising leaflet, undated.

Mr. John W. Hinds: taped interview with and a diary belonging to Rev. Dayle R. Schnelle, September 1942-November 1945.

Mr. Joseph W. Hoffman: article concerning Jack Gilberti that appeared in the Pittsburgh Press, December 2, 1988.

Mrs F.G. Holechede: scrapbook and memorabilia related to Paul Wiesser, a German World War I pilot, 1910s.

Mr. Kenneth A. Hoyt: three drawings from the Briggs Manufacturing Company for the B-29 ball turret, undated.

Mr. John E. Hunter: certificate awarded W. T. Milam by the Royal Netherlands Indies Airways, January 23, 1941.

Mr. Frank C. Hyne: newspaper article about Florence Singbiel, designer and painter of aircraft nose art during WWII, August 29, 1988.

Mr. Thomas R. Jakmides: technical manuals for the Goodyear ZPG-3W, undated.

Mrs. Sheila F. James: photocopies of newspaper clippings relating to the ballooning career of John P. Feagley, 1918 and undated.

Mr. Jeff Karpiak: 65 photographic negatives and six color slides, primarily of North American P-51 Mustang aircraft, ca. 1944.

Mr. Robert J. Kelly: newspaper articles concerning early aviation in Philadelphia, PA, October 1919-May 1920.

Mrs. C.B. Kemper: letter with original envelope written by Pearl Young to Mrs. Floyd Thompson while on board the Hindenburg, 1936.

Dr. Frank Korf: photographs, newspaper articles, correspondence, and publications of Dr. Hildegard Kallmann-Bijl, 1949-1968.

Dr. Robert Krauskopf: four photographs of the Messerschmidt BF 109 and a three-view drawing of a 1930 German bomber, 1936.

Mrs. Lois Kuster: approximately 2,000 photographs of aircraft and aviation pioneers, 1930s.

Ms. Elizabeth S. Lancer: photographs, correspondence and other memorabilia related to World War I pilot Robert Soubiran, 1914-1919.

Mr. Robert Lannen: over 2,000 slides of various aircraft from around the world, 1960s-1970s.

Mr. Leslie Lenkowsky: notebooks, photographs, and other material related to the early development of helicopters, 1936-1946.

Mrs. Lilian E. Leppanen: Daniel Guggenheim Fund Award for the promotion of aeronautics presented to Olaf S. Emblem, December 1928.

Mrs. Gwyneth Lind: memorabilia from World War II, ca. 1940s.

Mr. Eric Lundahl: 22 photographs of various aircraft, 1988.

Mr. Robert Mann: news article relating to setting the 1988 Amphibian altitude record, 1988.

Mr. Alton K. Marsh: 60 color slides of the Experimental Aircraft Association's Air Show at Oshkosh, Wisconsin, 1986.

Mr. Frank X. Marsh: 14 drawings of the Mitchell U-2 Superwing, 1980.

Mr. Oren Lee Martin: Lynn V. Blankman collection, photographs of aircraft and engines, famous women pilots, newspapers articles on early aviation exploits, 1906-1959.

Mrs. Isabel Bandeira De Mello Mathias: biographical material on the aviation career of Isabel Bandeira De Mello Mathias, undated.

Mrs. D.A.G. Mathieson: letter with original envelope written by Pearl Young to Mrs. Floyd Thompson while on board the Hindenburg, 1936.

Mr. Hiram H. Maxim: five books and two binders related to Sir Hiram H. Maxim, ca. 1890-1916.

Metropolitan Museum of Art/Thomas Watson Library: promotional letter from the Crusader Aircraft Corporation, September 25, 1936.

Ms. Maureen Mullen: brief biographical sketch of early balloonist Frank T. Coleman entitled "Life of an Astronaut", undated.

Ms. Maureen Mullen: three newspaper articles about nineteenth century balloonist Nellie Thurston (Mrs. Herman Squire), ca. 1966.

Mr. Brian D. Nicklas: three color photographs of a Boeing B-17G Flying Fortress and a Boeing KC-135, September 1988.

Ms. Dolores O'Neill: photograph of Amelia Earhart with her instructor Odell Garrison, undated.

Mrs. W.B. Olstad: letter with original envelope written by Pearl Young to Mrs. Floyd Thompson while on board the Hindenburg, 1936.

Mr. Richard Ostry: oversized photograph of a Consolidated B-36 in flight along with two Grumman Panther jet aircraft, 1954.

Mr. Joseph J. Pace: photographs and negatives documenting the Flexible Gunnery Training Unit at Landhi Field, Malir, India, 1944-1945.

Mr. Helmut Paling: photograph and obituary of Clarence Chamberlain, 1927 and 1976.

Mr. Anton Palmi: photographs, articles, and other documentation on the astronautics career of Herman Oberth, 1923 and 1955-1959.

Mr. Ed Peters: owners manuals for the Mooney Mark 21 Model M20C and the Mark 22 Mustang, 1967.

Mr. Fred Quarles: original drawings of and reports on the Mooney M-18 "Mite" aircraft, 1946-1948.

Mr. Christopher Reynolds: 55 photographs of airplanes and airships, 1916-1920.

Mr. James R. Roberson: three photographs of the Boeing B-29 "Enola Gay", 1945.

Mr. & Mrs. Rowland E. Roberts: photographs, newspaper clippings, copies of decorations, and aerial combat reports, 1918-1981.

Rockwell International: original 3-view and marking drawings of North American aircraft models B-25, P-82, and T-6, 1940s.

Mr. James B. Rome: two volumes of Royal Air Force Technical Notes on World War I aircraft, ca. 1910s.

Mr. Daniel L. Royce: air racing memorabilia and U.S. Air Service magazines, 1920-1926.

Mr. Thomas M. Sammons: photograph of the Convair XFY-1 "Pogo Stick", ca. 1952-1954.

Captain W.E. Scarborough: photographs of navy aircraft, 1937-1944.

Mr. Raymond W. Scheetz: 35 regional and sectional aeronautical charts, June 1943 - June 1945.

Rev. Dayle R. Schnelle: taped interview with and a diary belonging to Rev. Dayle Schnelle, September 1942-November 1945.

Mr. Paul J.F. Schumacher: photographs of ballooning in Zurich and of an English aircraft brought down by Baron von Richthoven, 1909.

Mr. Avro M. Sestrap: six photographs of Amelia Earhart and her Lockheed Electra, 1937.

Mr. George J. Siegel: photographs taken for the First Motion Picture Unit, displayed on two backboards, 1940s.

Mr. Dan Simmonds: photographs, posters, calendars, and other material related to aircraft and missiles, 1970s-1980s.

Mr. Ellsworth J. Snyder: album (number 8 of 11) highlighting the family and aviation career of Charles B. Snyder, ca. 1850-1940.

Ms. Rosemary Soubiran: photographs, correspondence and other memorabilia related to World War I pilot Robert Soubiran, 1914-1919.

Mr. Jay P. Spencer: 50 captioned photographs showing helicopters of the Hiller Aircraft Company, 1943-1964.

Mr. Jay P. Spenser: ten photographs of Fokker aircraft and a late 1920s tractor, 1928.

Mr. Fred L. Staffieri: seven color prints from a Trans-World Airlines calendar and three periodical photographs, 1940 and undated.

Mr. Hans-Heiri Stapfer: four photographs of a MIL MI-14 HAZE, undated.

Mr. Vincent Stevison: photocopied information on the French G-6 and R-4 Caudron aircraft, undated.

Dr. Eugene Studenski: two scrapbooks and the personal papers of Dr. Paul Studenski, an early aviator, 1910-1961.

Mr. Glen Sweeting: newspaper clippings written in German concerning ballooning in Germany, 1890-1891 and 1903.

Ms. Margaret P. Thacher: letter written by Helen Campbell Robertson describing her flight on a Western Air Express Fokker Tri-Motor, 1929.

Mrs. Marguerite Traxler: original correspondence signed by Charles A. Lindbergh, April 24, 1924.

Mr. J. Gordon Vaeth: photocopies of information concerning the disappearance of Amelia Earhart and her aircraft, 1937 and 1977.

Mr. Charles G. Waldrop: 20 drawings of the Bucker Bu.133 Jungmeister, May 1965.

Mrs. Aderyn Walker: photographs, a manuscript, and copies of newspaper articles concerning Montague Francis Glew, undated.

Ms. Winifred Weislogel: photographs related to aviation history, 1924-1932.

Mrs. Norma S. White: videotape of a slide presentation on the life of black aviator Chauncey E. Spencer, 1988.

Mr. Don Wigton: 26 photographs of aircraft, undated.

Mr. Kenneth A. Wilson : hand fan with images of Charles Lindbergh and the "Spirit of St. Louis" on one side, ca. 1920s-1930s.

Mr. William A. Wylam: photocopies of two technical manuals written in French for the Renault 12-FE and Fiat A-12 engines, ca. 1917-1918.

Dr. Vera Zorn: two scrapbooks and personal papers of Dr. Paul Studenski, and early aviator, 1910-1961.

NATIONAL MUSEUM OF AFRICAN ART

Donors to the Collection

Marc Leo Felix. Gourd of the Kwere peoples of Tanzania. (89-05-001)

Dr. and Mrs. Robert Kuhn. Door by Olowe of Ise. (88-13-001).

Robert and Nancy Nooter. Mask, Bassa people, Liberia. (88-14-001).

Philip Ravenhill and Judith Timyan. Hat of the Malinké, Guro or Wan peoples, Central Côte d'Ivoire. (89-01-001) Cloth of the Kulango peoples, Bouna, Côte d'Ivoire. (89-02-001).

Republic of Mali. Female figure from Mali. (89-03-001).

Blake Robinson. Three snuff mortars from Liberia. (88-15-001, 88-15-002, 88-15-003).

Roy and Sophia Sieber. Tripod chair from Tiv, Nigeria. (88-16-001).

Ciro R. Taddeo. Italian and Austrian "Thalers" coins. (Italian: 89-04-001, Austrian: 89-04-002).

NATIONAL MUSEUM OF AMERICAN ART

Donors to the Collection

- American Art Forum. Market Day Outside the Walls of Tangiers, Morocco, 1873, oil on canvas, by Louis Comfort Tiffany (1989.56).
- Alfred Bendiner Foundation. 1 work on linen, 4 works on paper, 1960, 1948, 1936, 1953, 1946, by Alfred Bendiner (1988.81.1-5).
- Thomas W. Bower. Two Rhinoceri, 1975, pencil drawing, by Joan Danziger (1988.79).
- William P. Carl. Trees, 1989, woodcut, by William P. Carl (1989.31).
- Alice Swinden Carter. Untitled (Abstraction), 1945, gouache, and Woman and Girl, ca. 1955, oil on canvas, by Albert Swinden (1988.90.1,2).
- Consolidated Natural Gas Foundation. Everglades, 1986, and Everglades, 1988, by Mary Peck, black-and-white photographs, (1989.34.1,2); 5 ektacolor prints, 1982, 1979, n.d., 1981, 1979, by Terry Evans (1989.38.1-5); 3 ektacolor prints 1986, by Joe Maloney (1989.39.1-3); 4 ektacolor prints, 1985, 1987, 1985, 1987, by Len Jenshel (1989.39.4-7); 2 palladian prints, 1988, by Andrea Modika (1989.41.1,2); Patterns of Destruction, 1988, unique black-and-white photograph, by Tina Potter (1989.49); "Shooting Sites," Las Vegas #20, 1987, printed 1989, cibachrome print, "Shooting Sites, Angeles National Forest #12, 1988, printed 1989, cibachrome print, by Anthony Louis Hernandez (1989.50.1,2); 3 selenium-toned, black-and-white contact prints, 1982, 1983, 1988, by Allen Hess (1989.53.1-3); Silver City, Nevada, gelatin silver selenide print and Goshen, Utah, from "Main Street" series, color photograph, by Frank Armstrong (1989.54.1,2).
- Henrietta Cunningham, Todd and Lucia Bogatay. Javanese Mother and Child, 1936, ceramic, by Paul Bogatay (1988.94).
- G. H. Dalsheimer Gallery, Ltd. RIOT, 1988, mixed media on paper, by Leslie Machinist (1989.37).
- Estate of Donald DeLue. Icarus, 1934, plaster, by Donald DeLue (1989.29).
- Thomas Fountain. Title unknown, ca. 1950, oil on canvas, by Jennings Tofel (1988.75).
- Andrew Freireich. Debris Series #3, 1987, unique black-and-white photograph by Tina Potter (1989.45).
- Chaim Gross. 5 drawings on paper, 1938-1939, 1937, 1937, 1937, 1936, by Chaim Gross (1988.91.1-5).
- Herbert Waide Hemphill, Jr. 11 paintings, 6 sculptures, 1 decorative art work, by various artists (1988.74.1-18); Wedding Basket, n.d., sweet grass and ash spolints, by Mary Adams; Portrait of Elizabeth Taylor, oil on canvas, by Andrea Badami; Screen Door, ca. 1930-37, carved wood, by Jose Delores Lopez; Lancaster County Embroidery Quilt, 1905, embroidered, cut, and stitched fabric, by an unidentified artist (1989.30.1-4).
- Jerry Jackson. 2 color etchings and a color lithograph, 1920, 1922 ca. 1928-early 1930s, by William Meyerowitz; Mexican Market, ca. 1952, black-and-white etching, by Theresa Bernstein (1988.89.1-4).

Mr. and Mrs. W. Robert Johnston. Suburban Overlook, 1972, acrylic on canvas, by Val Lewton (1988.87).

Adele Lozowick. 35 works on paper, by Louis Lozowick (1988.65.1-33).

Nan Tucker McEvoy. Stillscape II, 1984, cast bronze, by Brian Hunt (1989.6); Untitled (man reading a newspaper), 1988, color photo by Larry Sultan (1989.58).

John McNemar, P. E. Baby Dragon, 1985, mixed media, by Barton Benes (1988.93).

Djelloul Marbrook. Boats, Cape Cod, 1932, oil on canvas, by Irene Rice Pereira (1988.80).

Alexander Masley. 5 wood engravings, 1932, 1926, 1930, 1926, 1932, by Alexander Masley (1989.57.1-5)

Marilyn and Michael Mennello. Blue Sail Fleet Returns, ca. 1950, oil on canvas, by Earl Cunningham (1988.64).

Patrick A. Morelli. Infant from "Behold" monument, 1985, bonded bronze, by Patrick A. Morelli (1989.10).

Irving Penn. 60 photographs, by Irving Penn (1988.83.1-60).

Perkins Center for the Arts. Untitled (seated female nude), 1987, gelatin silver print, by Ricardo Barros (1988.73).

Irving Potter. Modern Music and Organizational Advances, ca. 1930s, woodcut prints by Albert Potter (1989.11.1,2).

Bernard Rabin in memory of Henry A. Rabin. 5 untitled etchings, ca. 1910, by Joseph Stella (1989.17.1-5).

Henry Ward Ranger Bequest. Carousel Bridge, Paris, 1952, oil on board, by Edwin Dickinson (1988.84); Conversation, oil on board, by John Koch (1988.85); My Studio, oil on canvas, by John Koch (1988.86).

James Renwick Alliance. Large Platter, 1988, glass, by Michael Higgins and "Drop-Out" Bowl, 1988, glass, by Frances Higgins (1989.7.1,2); Untitled (#8) Vessel, ca. 1976, stoneware with white glaze, by Frans Wildenhain (1989.9); Emerald Green Blanket, 1984, blown glass, by Dale Chihuly (1989.44).

Frank Ribelin. Drawing for Southwest Pieta, 1983, oil pastel drawing, by Luis Jiminez (1988.82).

Smithsonian Resident Associates Program. Tunis on My Mind, 1988, serigraph, by Willem DeLooper (1988.76).

Mr. and Mrs. James N. Rosenberg. Overhanging Branches, oil on cardboard on masonite; 57th Street, oil on cardboard on masonite; Rocky Seashore, oil on paper on cardboard; Sleeping Nymphs, oil on wood; Two Gulls and Cliffs, oil on canvas, by Louis Michel Eilshemius; Rolling Clouds, oil on canvasboard; Adirondacks, oil on paperboard, by James N. Rosenberg (1989.43.1-7).

Elizabeth Russell and Jeff. Urban Self-Projection, 1988, woodblock print, by Nicholas Sperakis (1988.77).

Dr. and Mrs. Shipley. Egg Series II: Cow Skull, 1986, serigraph, by Joe Price (1989.32).

Ms. Marilyn Stokstad. Hull #2, ca. 1982, revised 1988, wood, leather and mixed media, by Mark Roeyer (1988.78).

Mme. Jeanne T. Strong. Between Lausanne and Vevey above the Highway, ca. 1897-1913, watercolor, by Templeton Strong (1988.95).

Jo C. Tartt, Jr. 3 works, 1988, tempera on construction paper, by Eric Calvin McDonald (1988.88.1-3).

Lucien Treillard. 12 photographs, dated from 1924-39, by Man Ray (1989.55.1-12).

National Museum of American History

Donors to the National Collections

- AMF Bowling Company (through Paul Lane): set of 2 bowling balls without finger holes drilled (1987.3094).
- Academy of Television Arts & Sciences (through James L. Loper): Emmy award statuette (1983.0053).
- Mignon Sherley Acker, Swager Sherley, Jr., Thomas H. Sherley, Marjorie Sherley Wolcott, and Olive Sherley Young: 21 issues of "The Woman's Protest," 3 pamphlets, 3 brochures, a flyer, and a newspaper, all related to the National Association Opposed to Woman Suffrage, 1912-18 (1988.0282); sash with button attached, "Equal Franchise for New York, 1915" (1988.0347); photograph of representatives of the National Association Opposed to Woman Suffrage after seeing President Wilson on December 14, 1915 (1988.0536); 94 miscellaneous documents, news clippings, letters, and postcards, 40 copies of "The Woman's Protest Against Woman Suffrage," a pennant, and a booklet, all relating to the opposition to woman's suffrage (1989.0225).
- Jan Adkins: flute made of polycarbonate plumbing pipe with a cork stopper by John Ingalls in 1978 (1988.0490).
- City of Adrian, Utilities Department (through John C. Jenkins): Holly Manufacturing Company fire hydrant used by the City of Adrian, Michigan from 1883 to 1988 (1989.0052).
- Government of Aitutaki, Aitutaki Post Office: 13 mint stamps, 3 first day covers, and 2 souvenir sheets of Aitutaki (1988.0607).
- Alpha Wire Corporation (through Allen P. Marconi): 100-foot spool of 50-wire rainbow ribbon computer cable (1988.3055).
- American Airlines (through J. J. O'Neill): 7 components of the SABRE IBM 7090 computer system (1987.0130).
- The American Institute of Architects Archives (through Tony P. Wrenn): bronze medal commemorating the centennial of the American Institute of Architects in 1957 (1988.0776).
- American Red Cross, National Headquarters (through Mary D. Doering): 6 videotape cassettes and 7 posters, pamphlets and information packets about AIDS (1988.3143).
- American Sterilizer Company (through Richard Mancuso): surgical case cart with 3 wire shelves (1984.3008).
- Americans for Robertson: press release packet (1989.0139).
- Amtrak, National Railroad Passenger Corporation (through Bruce Heard): "Jewelry/Watch Inspector" sign from Union Station in Chicago (1988.0102).
- William Anderson: 3 packages of disposable acupuncture needles (1989.0129).
- Anne M. and Charles E. Andrew in memory of Mrs. Alice E. Parry: pair of girl's Goodyear rubber boots, 1906 (1989.0083).
- Anonymous: japanned tinware including a spice cannister set, bread box, molasses pitcher, and tea cannister, ca. 1900, and a child's highchair, 1875-1910 (1988.0541); 9 pieces of cookware, 8 games and toys, a set of paper tableware, insulator kit, toilet training seat, and a lazy susan (1988.0608); 2 sets of towel bars, 2 clothing dryers, a soap dish, set of place mats, package of preserve labels, and an aluminum tray (1988.3132).
- Henry O. Archinal in memory of R. G. Curtis: prototype of a WW II ammunition box (1988.0298).

Lt. Col. Muriel M. Ardery, USAF (Ret.): U.S. Air Force experimental exercise skirt of blue denim (1989.0053).

Charles C. Armbruster, John Lee Armbruster, Ruama Jane Armbruster Nelson, and Betty Louise Armbruster Raite Patino: patient-sized chest portion of an iron lung invented by C. E. H. Armbruster and an air pump with fly wheel motor used to operate it (1982.0200).

Chris Armenis: Post Office Department patch with mail handler secondary patch and a metal postal employee's badge (1988.0574).

Dale Armstrong: crankshaft used in a drag racer, ca. 1986 (1987.0882).

Joan S. Atwell: paper dress printed "Nixon," worn at a Young Republican rally in Rochester, New York, 1968 (1988.0757).

Commonwealth of Australia, Headquarters of Australian Army, Australian Military Attache (through Brigadier P. K. Cole): submachine gun with accessories (1988.0019).

Reserve Bank of Australia, Currency and Banking Department (through N. W. Skillicorn): 10-dollar commemorative note printed on synthetic polymer-based paper, issued on January 26, 1988 (1988.0525).

Todd Axelrod: 2 violin bows, one made by Adam and the other made by Emile Ouchard (1988.0115).

BASF Structural Materials, Inc. (through Mykie Carroll and Rosemary McKeller): spool of Celion carbon fiber and a sample of carbon (1987.3108).

Babbitt for President Committee, Inc.: videotape cassette of a debate held November 25, 1987 (1989.0134).

A. E. Bachelet: model of a washboard patented by Celeste Bachelet in 1926 (1989.0019).

Franz Bader: 2 cibachrome photographs by Mr. Bader, Snow Writing and Brown and Yellow, 1988 (1989.0163).

Dorothy A. Badin in memory of Frederick B. Hanson: wooden sign, "Darkies Bathing Prohibited" (1988.0758).

Bailey Banks and Biddle (through Paul W. Thurston): white low-relief ceramic plate commemorating James Madison and the U.S. Constitutional Bicentennial, designed by Eugene Daub, 1987 (1987.0735).

Arlie L. and Vernamae Baker: songbook published by the National Temperance Society, 1889 (1988.0584).

Baldt, Inc. (through Frank Amalfitano): die-forged steel submarine anchor chain (1987.0604).

Lawrence R. Baldus in memory of G. Charter (Nick) Harrison: 3 Primary New York City-type air and spring guns, 1868-75 (1989.0118).

B & O/C & O Railroad (through R. J. Dischinger): 3 components and a pamphlet relating to the Datamatic 1000 computer system (1987.0748).

Walton G. Banks, Inc. (through Walton G. Banks): Monroe calculating machine and operating instruction (1984.3046).

Helen M. and Robert Barsoom: brass numeral "8" and a generator plate from the USS West Virginia and a brass generator plate from the USS Oklahoma, both sunk in Pearl Harbor on December 7, 1941 (1988.0516).

Lt. Col. Grace M. Barth, USAF (Ret.): pair of dress white uniform gloves (1989.0127).

Vineta D. Bartlett: pair of U.S. Navy white dress pumps worn by Ms. Bartlett during WW II (1989.0169); 3 wooden lace bobbins from Denmark, early 20th century (1989.0181).

Hester M. Bates: silver nursing nipple (1988.0602).

Raymond Battaglia: Elgin pocket watch, ca. 1911, and a Hamilton pocket watch, ca. 1928 (1988.0738).

Battelle Memorial Institute (through Paul T. Santilli): prototype production vessel, ca. 1955, and 9 tools made by the hot isostatic pressing metallurgical process (1987.0548); Columbus Division (through Ian M. Mercier): 2 polyethylene gas line pipe sections and a steel nuclear plant pipe section (1988.3042).

John K. Beaver: 22 rifle and pistol cartridges, a Krag rifle bullet and a Krag-Jorgensen rifle tool (1985.0365).

W. P. Bebbington: Edison Amberola phonograph, 1915-29 (1988.0050).

Beckman Instruments, Inc. (through Arnold O. Beckman, Ph.D. and Robert R. Crittendon): Beckman Model E analytical ultracentrifuge used to obtain precise molecular measurements (1988.0493).

Robert W. Bemer: 8 notebooks and 3 booklets relating to the history of computer software (1979.3056).

H. Milton Benas in memory of Horace Wesley Benas: 2 theater programs and a souvenir book from the New York Hippodrome (1988.0715).

Dr. Jules E. Benbenek: Magnetron electron tube, 1936, and an ELMAC vacuum tube (1988.0805).

Elizabeth W. Bendiner: 55 pins and medals sold during WW II for war relief and a coin imprinted "Freedom, May 5, 1961" (1989.0017).

Beretta U.S.A. Corporation (through Robert D. Bass): 4 frames, 4 barrels, 4 slides, and 3 pistols, all showing the stages of construction of a Beretta M9 pistol (1989.0068).

Judith Berger: 2 chromolithographed Danish circus posters and an American silkscreened poster (1988.0694).

Helen Berman, Ph.D.: 4 Watson and Crick model DNA templates made at Cambridge University in March 1953 (1988.0494).

Elizabeth P. Berry: wooden surveyor's compass marked "Anthony Davenport, Portland" and an unmarked case (1989.0541).

Bescar Industries (through William H. Bessel): wooden crab-cracking mallet (1987.0635).

Harriet B. Best: 232 locomotive builders' plates (1986.0844).

Anthony E. Bisantz: Chinese type-54 pistol with accessories (1989.0119).

Black Box Collotype (through John V. Graff): 3 collotype prints of the Chicago Tribune building, 1922 (1988.0639).

Regina Blaszczyk: 2 patches, a cap, and a T-shirt from various bicycling events and a factory worker's apron (1988.0482).

Edward Marshall Boehm, Inc. (through Frank J. Cosentino): 2 unglazed porcelain figures of a "Screech Owl" and a plaster wing mold used in making the figures, ca. 1981 (1984.0067).

Gwendolyn R. Bolger: scarecrow costume worn by Ray Bolger in the 1939 motion picture The Wizard of Oz (1987.0608).

Philip Borish: key chain from the 1985 Inaugural Ball and a program and audiotape cassette from a First Lady's Tea held on June 9, 1988 (1988.0567).

Bowdoin College, Department of Physics (through E. O. LaCasce): 7 lantern slides and a set of 29 lantern slides, all showing astronomical subjects (1988.0385); 11 photographs making up Henry A. Rowland's map of the normal solar spectrum, 1888 (1989.0082).

Helen King Boyer: 18 etched aluminum printing plates by Louise M. Boyer and an etched plate by Helen King Boyer (1988.0582).

Peter B. Boyne: pair of man's khaki cotton trousers, 1955-65, and a man's cotton T-shirt, 1988 (1988.3151); pair of man's sandals, 1970 (1989.3005).

Susan A. Bradley and William Tarpai: Norte Vista High School varsity

letterman's jacket, 1966 (1988.0552).

Margaretta W. Brede: woman's cape, 1855-70 (1988.0020).

Donald W. Broman II: letter with a dress fabric sample attached, early 19th-century, and a Victorian needlework ball (1987.0761).

Brother International Corporation (through P. T. Gilmore): EP-20 dot matrix portable typewriter-printer, ca. 1983 (1989.0005).

Carleton C. and Imogene C. Brower: 6 silver teaspoons, 1800-50; 6-piece Gorham and Company silver coffee and tea service, 1850-60; and a silver-plated tray by the Ellis-Barker Silver Companies, early 20th century (1988.0569).

Brown Univeristy, Afro-American Studies Program, Rites and Reason Committee (through George H. Bass and Ron Weaver): bronze sculpture, The Bird of New Hope, by Joseph Geran, 1980 (1989.0103).

Franklin H. Brown and Robin L. Brown: 12 pieces of infant's clothing and accessories, 1927 (1988.0481).

Louise Este Bruce in memory of Mrs. James Bruce: Abercrombie & Fitch generator/flashlight, ca. 1935 (1989.0362).

John E. Brunhammer: aluminum coin on a keychain inscribed "Ronald Reagan Coin 1982 Good for Nothing," designed by Mr. Brunhammer (1988.0744).

James H. Bruns: 2 silver bowls, 1941-43, and a silver plate, 1969, awarded to Franklin R. Bruns, Jr. for outstanding philatelic research and writing (1987.0582).

Dorothy K. Burch: electric peanut-butter machine made by Salton, Inc., ca. 1975 (1988.3165).

Mrs. George Burch: 8 pieces of equipment developed and used by Dr. George Burch during his research in cardiology (1988.0366).

Burrell Advertising Company (through Allen Hovious and Robert A. Jackson): 7 tear sheets showing black craftsmen at work and used to advertise Jack Daniel's whiskey (1987.3131).

Burroughs Corporation, Defense and Space Group, Great Valley Laboratory (through J. Jay Wolf): 2 thin film memory planes, a set of 11 thin film memory circuits, set of 4 Burroughs computer models, Atlas computer model and an input/output package (1987.0822).

Herschel B. and Thelma M. Burt: 8 printing blocks (1987.0742).

John Byrne: piece of original "Superman" comic artwork (1987.0463).

Calhoun's Collectors Society, Inc. (through Stafford Calvin): 13 23-carat gold stamps commemorating the American colonies, issued as local emissions of Staffa, Scotland, 1975 (1988.0394).

Heather H. Campbell: 5 salve sticks, a salve tube and a salve label (1988.0648).

Louise D. Campbell: 344 geometric models made by A. Harry Wheeler (1979.0102).

Carpenter Technology Corporation (through W. E. Roberts): 11 components from an IBM 650 digital computer, 2 boxes of parts, and 18 pieces of documentation (306013).

Frances W. Carter: painted wooden sign from the Mt. Zion Mission Baptist Church (1986.0812).

Lena C. Carter: girl's 2-piece cotton dress and a pinafore apron, 1860-80 (1989.0123).

David L. and Joyce Q. Casey: 2 Sony Betamax videotape cassette recorders and 2 Sony videotape recorder auto changers, 1977-79 (1988.0784).

Russell K. Cashdollar: shot glass with slogan "Happy Days Are Here Again" and picture of a donkey (1988.0709).

Joseph A. Castellano, Ph.D.: 9 examples of early electronic watches and a

bomb sight, all with liquid crystal displays (1987.0039).

Castle Metals (through C. L. Reed): uncut crankshaft billet and semi-finished crankshaft (1988.3031).

Rachel Chelnick: Bausch and Lomb soft contact lens sterilizer (1989.0022).

The Chicago Public Library, Special Collections Division (through Laura Linard): graduation program from Western High School in the District of Columbia, June 22, 1893 (1989.0072).

Government of the Republic of China, Directorate General of Posts, The Philatelic Department: 102 stamps, 19 first day covers, and 2 souvenir sheets of the Republic of China (1987.0510).

George W. Christensen: man's denim jacket and trousers, wool tweed trousers, and suede "stars and stripes" trousers, all late 1960s (1989.0056).

Mrs. Hans Christensen: silver coffeepot with redwood handle made by Hans Christensen in 1955 (1989.0168).

Estate of Dorothy H. Christian (through F. Elwood Davis): 55 documents and personal memorabilia from the administration of President Warren G. Harding, 1921-23 (1986.0834); 3 books, 1916-34 (1986.3145).

Cinematronics Inc. (through Jim Pierce): video game titled "The Dragon's Lair" (1984.0891).

Eric H. Clamons: 10 sets of papers documenting the work of the ANSI X3L2 Committee on Codes which Mr. Clamons chaired, 1968-72 (1980.3029).

Mrs. Albert R. Clark: khaki cotton Eisenhower jacket worn by Sgt. Albert R. Clark, ca. 1945 (1989.0543).

Dolores J. Cleary: knit wool utility cap and a WAC/WAF "Pallas Athena" guidon, WW II (1988.0638).

Wayman Cobine in memory of Dolores Cobine: Model G 20-40 Rumely Oil-Pull tractor, ca. 1920 (1988.0372).

Ada M. Coe: miniature rubber boot (1988.0683).

Barbara J. Coffee: aluminum West Bend bun warmer, 1950s (1989.0220).

I. Bernard Cohen: 15 German posters on the history of computing devices and 2 IBM punched cards, 1930s (1988.0803).

Herbert R. Collins: 8 covers, 4 postal cards, and 3 postcards (1987.0410).

Columbia University, Columbia University Libraries (through Suzanne Fedunok): 2 books on factor stencils by Derrick N. Lehmer and 2 sets of stencils for factoring large numbers, 1929 (1988.0316).

Communications Workers of America, AFL-CIO (through Francine S. Zucker): union patch (1988.3133).

Donald D. Conard: "Verona" U.S. flag set for an automobile, 1920-25 (1989.0021).

Congress of National Black Churches (through Joseph Eaglin): poster, "Three Good Reasons Why You Should Register & Vote" (1987.0493).

S. Jackson Conn and William M. Conn: violin purchased by Solomon Conn in 1863 and carried by him during his service with the 87th Indiana Volunteers during the Civil War (1988.0716).

Consolidated Rail Corporation (through W. M. Wehner, P.E.): collection of approximately 10,000 drawings, blueprints and mechanical copies of various structures built by railroads now part of CONRAIL (1987.3112).

Government of the Cook Islands, Post Office, Philatelic Bureau: 6 mint stamps, 3 souvenir sheets, and 2 first day covers of the Cook Islands (1988.0193); 6 stamps and a first day cover of the Cook Islands (1989.0233).

Dr. Genrose Copley: 5 feed sacks, 3 disassembled feed sacks, and 2 feed sack fragments all made by Aubrey Feed Mills of Louisville, Kentucky,

1940s-60s (1989.0276).

Rushton G. Cortelyou: autocamping tent, 1919 (1988.0768).

Cougar Chemical Corporation (through Roy Singleton, Jr.): sheet of Monsanto "AstroTurf" synthetic grass (1988.3049).

James P. Cragg, Jr. and Marie S. Cragg: "Irvington Rexall Pharmacy" sign, 7 medicines, a dispensing bottle, and a perfume display bottle (1989.0091); 21 pharmacy labels, a bag, and a pad (1989.3022).

Jeffery R. D. Crockett in memory of Mr. and Mrs. Norton S. Crockett: Columbia Viva-Tonal grafonola portable phonograph, ca. 1928 (1987.0031).

Theodore R. Crom: part of a watch crown wheel rounding-up tool, 19th century (1987.0185).

Thomas N. Cross, M.D.: gold-plated pencil case worn on a watch chain and a box of pencil refills, ca. 1910 (1987.0209).

Government of Cuba, Ministerio de Comunicaciones, Empresa de Correos, Prensa y Filatelia: 47 mint stamps, 24 first day covers, and a souvenir sheet of Cuba (1987.0431).

Lt. Comdr. Bruce Emmet Curtin and Gail Curtin: U.S. Cavalry enlisted man's dress coat, 1872-84, worn in service by Thomas Robert Curtin, Sr. (1989.0474).

DC Comics Inc. (through Paul Levitz): 8 folders and a box of "Superman" comic books and strips, scripts, illustrations, books promotional material, and newspaper clippings (1988.3084).

D. D. Half Ball Inc. (through Bernard P. O'Brien): 5 balls and a bat used to play half-ball (1988.0605).

Mark H. Dall: pocket watch with Swiss movement and a U.S. silver hunter case, ca. 1866 (1988.0796); sword belt and plate used by William H. Dall, 1851 (1988.0800).

Pete Daniel: 5 phonograph records (1988.0374).

Danmarks Grafiske Museum (through Ervin Nielsen): chromolithograph portrait of Thorwaldsen by P. E. Johanssen, ca. 1935 (1988.0673).

The Dannon Company, Inc. (through Barbara Beck): advertising poster showing a construction worker eating yogurt (1988.3138).

Darnestown Limited Partnership (through Michael B. Landow): section of patterned concrete block wall section, 1913 (1988.3156).

Davidson: geodesic dome (1983.0019).

Watson Davis: 19 audiotape cassettes of the "Adventure in Science" radio program, 1955-56 (1986.3137).

Sidney Dickstein: 5 man's neckties, 1968-74; a 3-piece Pierre Cardin suit, 1975; and a girl's Gunne Sax dress, 1976 (1989.0061).

Louis DiLauro: 16 billion-units of Kangra, 13th-14th century (1988.0274).

The Walt Disney Company (through Roy E. Disney and Michael O. Eisner): 6 pencil drawings and 5 animation cells for "Steamboat Willie," the first Mickey Mouse cartoon, 1928 (1988.0434).

District of Columbia Government, Department of Corrections: 3 signs, a poster, mirror, key with tag, and a denim jacket from the old D.C. jail (1982.0496).

Helen V. Dolan: photograph of Mrs. Grover Cleveland, 1886 (1989.0454).

Dole for President Committee, Inc.: 2 videotape cassettes, a letter, pamphlet, leaflet, form, decal, and a brochure (1989.0087).

Robert F. Dow, M.D.: 2 Lepel diathermy machines, a Siemens diathermy machine, basal metabolism tester, vibrator, Fischer quartz ultraviolet unit, suction pressure unit, and a plexiglass back brace (1984.0605).

Francis D. Doyle: Crosley "Icy Ball" absorption refrigerating unit,

ca. 1925 (1988.0609).

E. I. du Pont de Nemours and Company, External Affairs Department (through Richard J. Woodward): "Kelvar" helmet (1988.0191); 3 artificial arteries, 2 packages of veins, 2 packages of sutures, 2 soft tissue patches, and 2 surgical membrane patches (1988.0645); ballistic-resistant vest in a white dress shirt style (1988.3041); Fibers Department (through Cassandra L. Horner): "Second Chance" bullet proof vest, set of 4 rope segments, set of 3 pairs of "Armordillos" gloves, set of 3 "Nomex/Kevlar" honeycomb squares, and a set of 2 "Kelvar" bobbins (1989.3026).

Pete Du Pont for President: 2 videotape cassettes and a set of 9 bumper stickers (1989.0088).

Arthur D. Dubin: 31 folders of papers relating to George M. Pullman and the production of the Pullman Palace Car (1986.3024).

Prof. Shirley Surette Duffy: "The Checkbook Balancer" adding machine (1989.0573).

Mike Dukakis for President: videotape cassette, press kit, bumper sticker, and a button (1989.0132).

George W. Earle, Jr.: Autographic Register counter billing machine and a business address rubber stamp used with the machine, ca. 1904 (1988.0348).

Judge Robert J. Eby: button, "Eby" judicial campaign, 1981 (1989.0359).

Nanci K. Edwards: Dennison paper fastener container (1989.0426).

Edwin Ellett Tile Company (through Edwin E. Ellett and Grace F. Febrey): 126 decorative ceramic tiles (1989.0006).

Luis Tomas Estrada: poster of tough-looking Uncle Sam figure captioned "Sambo" (1988.0646).

Elizabeth M. Everall: blue Greek-style handbag, 1968-72 (1988.0691).

Max Factor (through Allen G. Kurtzman and Kim Rahilly): 19 cosmetic products of the 1920s, 1930s, and 1940s (1989.0120).

Mary N. Farha in memory of Lewis N., Nabeha B., and Nemetallah Ferris Farha: framed document, "Gibran's Message to Young Americans of Syrian Origin," 1926 (1988.0619).

Faye Klapp Feniger and Henry Ewing Feniger: gray wool automobile blanket, 1900-20 (1988.0781).

Harriett Ferreira (through Helen D. Renteria): blue and white double-woven coverlet, 19th century (1988.0359).

Charles W. Fertig: 26 folders of manuscript records relating to the development of direct plate laser imager technology for newspaper printing (1988.3130).

Sandra M. Field: decorated egg inscribed "ES, 1818" (1989.0219).

Aline File: gold and pearl bracelet, 1860-80 (1989.0165).

Leo Pinegold: bumper sticker, "Reagan-Bush Is NOT A Christmas Tree" (1988.0640).

Avram Finkelstein: 11 posters, 4 flyers, 2 T-shirts, a button, and a bumper sticker, all concerned with the AIDS pandemic (1988.0537).

Finley: 2 sleeves, a collar, and a border of whitework embroidery, 19th century (1988.0330).

Flexi-Therm, Inc. (through Seymour Katz): 4 thermoflex detectors (1986.3094); (through Seymour Katz and Hans S. Stern): 14 sets of graphics and pieces of thermographic equipment used to diagnose illness by the body's heat patterns (1985.3025).

Alexander A. Fondak, M.D.: silver chalice and case, embroidered wrap, 1886 program album, piece of sheet music, and a ribbon, all owned by the

Grover Cleveland family (1989.0466).

Donald W. Foote: man's barbeque apron, 1950s (1988.3159).

Mrs. Jane Jeffcoat Foote: woman's letter sweater (1988.0601).

Shelly Jayne Foote: 2 woman's hair ornaments, a leather handbag, pair of platform shoes, dress, trousers, and a blouse, 1967-75 (1989.0161); in memory of Elizabeth Foote: 2 needle books, 1909 and 1920s (1989.0337).

LaVerne Forbush (through Helen Mary Overstreet): 5 engraved prints and a photomechanical intaglio print (1989.0096).

Delsie D. Foreman in memory of George W. Foreman: 24 audiotape cassettes of software for a Heathkit computer (1989.3073).

C. Leslie Forsyth: 5 brass Masonic chapter "pennies" and 2 bronze commemorative medals (1988.0778).

John M. Fowler: bracelet charm shaped like highway route sign labeled "US 31, Kentucky" (1989.0439).

James Frank: untitled collotype print of a tree by Mr. Frank (1988.0615).

Dr. Ulrich A. Frank: RCA portable radar and a Thermistor thermometer (1988.0741).

Freeda Vitamins, Inc. (through Philip Zimmerman, Ph.D. and Sylvia Zimmerman): 14 varieties of Freeda vitamins and an advertising calendar for 1983 (1983.0165).

David A. Freeman: lithograph, Manhattan Backdrop, made by Mark Freeman, 1930s (1989.0191).

Henry B. Fried: 3 electric watch movements and an electric digital watch (1987.0156).

Emanuel Fritz (through Barbara E. Fritz): Dennison's container for paper fasteners (1988.0042).

M. B. and Ruth Furman: brooch and bracelet set of gold with sapphires, brooch and bracelet set of gold with aquamarines and rubies, 2 brooches made with opals and diamonds, and a ring of gold with sapphires and diamonds (1988.0476).

Edwin Gabler: 2 fountain pens, one by Parker and the other by Esterbrook (1987.0407).

Adam Gallan: Fairbanks "Tu-Ba-Phone" banjo, Vega Company tenor banjo, unmarked banjo with case, "Arthur Godfrey" ukelele, Lakeside guitar with case, and a child's fibreboard violin with bow (1987.0055).

La Garita Del Centinela, S.A. (through Oscar F. Kolombatovich): fencing mask and a plastron (1989.0125).

Laurence M. Gartel: print of a computer graphic, Energy Men, by Mr. Gartel, 1988 (1989.0199).

General Electric Company, Corporate Research and Development (through George Wise): set of 36 germanium transistors, a germanium crystal, and a transistor, 1952-56 (1984.0150).

General Stencils, Inc. (through David Braun): 17 stencil punch sets, 9 brass and paper stencils, 2 planishing irons, and a stencil punch carousel, 1925-85 (1987.0636).

Gephardt for President: press kit and a letter requesting contributions (1989.0135).

Althea Gibson: 2 Wimbledon Ladies' Singles Championship trophies, 1957-58; 3 Ladies' Doubles Championship loving cups, 1956-58; and a tennis outfit and racket used by Ms. Gibson at Wimbledon in 1957 (1988.0260).

Sara Gilbert: Shrimptons' Eclipse crochet hook with handle cover, patented in 1912 (1988.0703).

Joan E. Gittens: "Bush/Quayle '88" button (1988.0833).

Elizabeth W. Glascoch: 2 curtain sections of machine-made net with machine

embroidery, early 20th century (1989.0275); 2 pairs of pleated silk clip-on lamp shades, ca. 1900 (1989.0430).

Nancy Jan Gleason: elephant and donkey pull toys made for the Republican and Democratic National Conventions, 1988 (1988.0714).

David and Harriet M. Gold: 8 radio transcription discs by the U.S. Department of the Treasury, Savings Bonds Division, 1930-50 (1988.0061).

Goodyear Tire and Rubber Company (through Michael W. Cook): section of rubber tire from a 35-ton earthmover truck (1988.3054).

Robert W. Gorman: pair of ice skates worn by Gordie How, ca. 1978 (1988.0806).

Mr. and Mrs. Kenneth A. Gosney: Bown & Tetley rifle with etched scrollwork and scenes on the stock (1987.0671).

Mrs. Janet L. Gray: 2-piece devil's Halloween costume and an "Official Charlie McCarthy" hat (1989.0417).

Great American Salvage Company (through D. A. Kasle): 8 marble balusters, 7 glazed terra cotta wall tiles, 2 sections of copper cornice, bronze radiator heater grille, wooden stairway handrail, and a wooden doorway pediment (1988.3039).

Joel Grey: tailcoat, pants, shirt, pair of shoes, socks, and a box filled with make-up, all used by Mr. Grey in his stage and movie role of the M.C. in Cabaret and a playbill and program from the 1977 tour of Cabaret (1989.0374).

Adelaide Rendleman Grieve: peach silk teddy and an embroidered handbag purchased by Mrs. Grieve in Paris in 1928 (1988.0600).

Margaret Grimes in honor of Mavis Warner Van Peenen: 13 articles of woman's clothing and accessories including a cape, dress cap, blouse, teddy, hoop, bustle, 2 necklaces, a pair of earrings in their original box, lapel watch, and a pair of brooches, late 19th through mid-20th century (1989.0055).

Sondra Grupen: U.S. Navy identification tag for Registered Nurse Nora B. Limberg dated September 15, 1917 (1989.0094).

Donald M. Gruse: 2 caps of the Aircraft Mechanics Fraternal Association (1988.0297).

Dona Guimaraes: 57 pieces of child's and adult's clothing, cosmetics, woman's jewelry, personal care products for traveling, and miscellaneous accessories, 1880-1980 (1988.0280); photograph of a woman in a bathing suit, 1922-32 (1988.0469).

C. D. Gull: box of carbon paper, 1920s (1988.0623).

Cloyd Dake Gull: U.S.-made pistol with a patent date of April 5, 1887 (1989.0258).

Haig for President, Inc.: 6 buttons, 4 bumper stickers, a window sticker, brochure, and an information packet (1989.0101).

Milton Halberstadt: 23 tear sheets, 6 proof sheets, 5 photographs, 4 brochures, a dye transfer print, and a poster, all used in developing advertisements (1988.0156); 3 billboard advertisements in 34 pieces, 26 tear sheets, 10 type "R" prints, 7 posters, 7 proof sheets, a brochure, and a photograph (1988.0157); 9 color transparencies (1988.3024); 27 color transparencies (1988.3025). 47 color transparencies (1988.3026).

John C. Hambrick on behalf of the Hambrick Family: broadside, "Negroes for Sale," 1841 (1989.0020).

Hanes Corporation, Hanes Hosiery Division (through Gordon Hanes): 3 circular knitting machines, 1910-40 (320687).

George H. and Nancy Noble Harder: Ford Country Squire station wagon, 1955 (1989.0211).

Robert S. Harding: "Ronald McDonald" digital wrist watch, 1984 (1987.0932).

Jean D. and Samuel E. Harris, Jr.: infant's coat and cap, 1960 (1989.0140).

Karyn Jean Harris: woman's tie-dyed dress, notebook about tie-dying, and a poncho-style cape, 1970-71 (1988.0670).

Michael R. Harris: phonograph record of hockey tips from Garry Unger and Barclay Plager (1988.0370).

John E. Hasse: Fender Rhodes portable electric piano and 3 owner's manuals, ca. 1972 (1988.0047).

William F. Haworth: Johnson light machine gun manufactured by the Cranston Arms Company of Providence, Rhode Island, 1941 (1989.0440).

Health Mart, Inc. (through Bruce Kneeland): 19 pain relievers, cold medicines, vitamins, food supplements, and personal care items (1988.0687).

Raymond J. Hebert: 48 ancient Greek fractional coins of the 4th-5th century B.C. (1988.0458); 5 quartz clocks and wristwatches (1988.0810).

William H. Helfand: 6 bottles, 2 belladonna plasters, a show globe, and a wooden advertising token (1983.0749); 2 white ceramic ointment pots and a Lydia Pinkham advertising thread case, all ca. 1895 (1985.0618); 224 pieces of medically related ephemera (1987.3043).

Edward L. Heller: book of logarithmic and trigonometric tables by Kaj L. Nielsen, 1965 (1984.3078).

Edgar H. Hemmer: Gloria Light Company Oxo-Gas hollow-wire system gas burner and storage tank, ca. 1920 (1989.0549).

Stephen M. Henderson: envelope with black border used by Jacqueline Kennedy after President Kennedy's death in 1963 (1989.0360).

Joseph H. Hennage: Hoffmann Type & Engraving Company top-lever hand press, E. & W. Ullmer Albion hand press of 1859, and a #2 Lowe proof press (1988.0650).

Lloyd E. Herman: man's Pierre Cardin jumpsuit, 1960s, and a tie-dyed shirt, 1964-65 (1988.0812); man's reversible patchwork necktie and cummerbund, 1980s (1989.0039).

Harry Hickox: 9 toys and promotional objects, 3 hand puppets, a marionette, and a television prop train, all related to the "Jump-Jump of Holiday House" radio and television shows, 1948-54 (1988.0519); 8 phonograph records and 6 film reels of "Jump Jump of Holiday House" (1988.0653).

Dorothy and Paul Hieronymus: Prospectus by William Douglass, inventor of an automatic grain binder system (1988.3125).

Deborah D. Hilke: 8-piece Commodore 64 personal computer system and 4 users guides and manuals (1989.0544).

Robert W. Hoelscher: machine gun made by Canadian Arsenals Limited of Kitchener, Ontario, 1954 (1987.0385).

Christine Hoepfner and Jeannie M. Wayne: American Automobile Association Triptik road map showing route from San Diego, California to Washington, D.C. (1988.0626).

Adrienne Hoffman: oversized porcelain cup and saucer decorated in the "Quail" pattern, 19th century (1987.0811).

David and Iris Hoffman: 932 postcards of African-American images, 1900-33 (1987.3116).

Carolyn N. and Donald Hoke: 5 typewriter ribbon tins (1989.0179).

Helen E. Holley: U.S. Army uniform skirt, shirt, hat, and raincoat (1989.0152).

Maj. Gen. Jeanne M. Holm, USAF (Ret.): woman's U.S. Air Force formal

uniform sleeve insignia, rank of Colonel (1989.0128).

Hoover Group Inc., Ball and Roller Division (through Kenneth M. Goodman): set of 8 balls of different materials and a "Balls" poster (1987.3109).

Grace Murray Hopper: Navy arm patch and a Cruft Laboratory badge worn by Ms. Hopper during WW II (1989.0093).

Murray and Roslyn H. Horowitz: gold and porcelain dental partial (1988.0734).

Lina V. Howe: magnet, placecard, and a lapel pin, all with the Democratic Party's donkey motif, 1988 (1988.0557).

Donald A. Humble: fused mass of Spanish coins salvaged from the USS Maine sunk in Havana Harbor, Cuba in 1898 (1988.0791).

Adm. Raymond P. Hunter: Seth Thomas ship's bell clock (1986.0859).

Evelyn M. Hurlburt: refractor telescope with tripod and an auxiliary telescope (1988.0636).

Dr. Harry D. and Velma R. Huskey: main unit, magnetic tape drive, typewriter, set of program tapes, set of paper tape cassettes, and a reel of paper tape, all part of the Bendix G-15 digital electronic computer invented by Dr. Huskey, 1955-60 (1988.0435); 77 pieces of documentation for the Bendix G-15 computer (1988.3106).

Thomas Imgram in memory of Jeanne Virby Imgram: Emerson "Snow White" radio, ca. 1937 (1988.0369).

Peter Indorf: 2 medals commemorating the 350th anniversary of the founding of New Haven, Connecticut, 1638-1988 (1988.0779).

International Business Machines Corporation (through Paul J. Friedl): SCAMP personal computer with power supply (1988.0681); 8 notebooks, 2 folders, a booklet, and a set of audiotape cassettes documenting the SCAMP personal computer (1988.3146); (through D. E. Knight): 9 components of an IBM 702 computer system (1987.0747).

Izod Youthwear (through Mitchell Porigow): boy's white knit polo shirt marked "Izod Lacoste" with a blue alligator applique on the front, 1988 (1988.0392); boy's Izod Lacoste shirt, 1988 (1988.3109).

Tim James: King trumpet made for and played by Harry James (1988.0057).

The Bank of Japan, Cash Department (through Mitsuo Fujimoto): 4 500-yen coins commemorating the opening of the Seikan Tunnel and the Seto Bridge, 1988 (1988.0770).

A. G. Jennings & Sons: 125 pieces of silk lace manufactured by A. G. Jennings & Sons, 1880s (1987.0414).

Susan R. and William F. Jensen: miniature 42-star U.S. Flag (1989.0312).

Joey Jobes: wooden duck decoy made and signed by Mr. Jobes, 1988 (1988.0802).

Johns Hopkins University, Department of Physics (through Dean George Owen): ruling engine for optical gratings built by Prof. Henry A. Rowland, ca. 1880 (304122).

Frederick H. Johnson, Jr.: Estey 2 manual and pedal reed organ including bench, blower, and tubing (1989.0190).

Richard A. and Virginia L. Johnson: chromatic harmonica made by Kooch of Germany, 1900-25 (1987.0434).

William A. Jones: 2 photographs of school children in Meridian, Mississippi (1989.0027).

K. Kadokura: Japanese abacus (1989.0515).

Satoru Kakitsubo: 5 bronze Japanese art medals designed by Mr. Kakitsubo (1985.0718).

Sylvan J. Kamm: Babe Rainbow lithographed print on tin by Peter Blake, 1968 (1989.0455).

Alvin R. and Marjorie Sered Kantor: 41 U.S. postal marking devices, 10 boxes of type, and a stamp pad (1987.0905); 45 postal marking devices and postal badges (1988.0088); post office screen line unit with base, ca. 1900 (1988.0658).

Lillian S. Kaplan: 36 phonograph records (1988.0824).

E. C. Karnavas: 5-station germanium point contact assembly (1988.0473).

Celine Karraker: 10 diaries kept by Leo H. Baekeland from 1907 to 1910 (1984.3024); 10 diaries kept by Leo H. Baekeland from 1916 to 1920 (1988.3001); 10 diaries kept by Leo H. Baekeland from 1920 to 1925 (1988.3002); 10 diaries kept by Leo H. Baekeland from 1910 to 1916 (1988.3017); 19 boxes of papers kept by Leo H. Baekeland (1988.3065).

Jack Kemp for President: 8 buttons, 4 bumper stickers, 3 videotape cassettes, a strip of stickers, and an information leaflet (1989.0130).

Deborah L. Kempf: 2 school memory books, Girl Scout mess kit and sash, "Woodstock" poster and headband, Beatles badge, 8-track tape, and trading card set, Jefferson Airplane poster, and a package of daisy decals (1987.0717).

Dr. Bernard V. Kessler: Hastings automobile radio, ca. 1953 (1987.0464).

Rose E. and Prof. Seymour R. Kesten: Clavioline electronic musical instrument made in Paris (1987.0122).

Keuffel & Esser Company (through Marsh W. Bull): 2 dividing engines, a set of slide rules, pantograph, planimeter, compass, and a set of dividers (306012).

Seymour Kevelson: Wildman circular rib knitting machine with March & Crowford stop mechanism, ca. 1905 (1989.0074).

Claudia Brush Kidwell: pair of white plastic earrings, pair of ceramic earrings, and fake pearl necklace, all 1950s, and a girl's clear plastic umbrella, 1981-83 (1989.0043).

Cody C. Kirkwood in memory of Helen Kirkwood and Arthur S. Knight: album of colorgraph prints with historic notes and instructions (1988.0580).

Margaret B. Klapthor: envelope of documents from the "Just Say No" anti-drug campaign (1989.0100).

M. B. Klein, Inc. (through Stanley F. Dobrzycki): set of 29 N-scale model trucks and automobiles and a set of 14 N-scale model pedestrians (1988.3104).

Ben Kleinerman: 2 Transtape sound recorders, a Cinesone film adapter, and a reel of 16mm film (1987.0520).

Carole R. and David C. Kline: 2 fragments of reproduction ingrain carpeting with pre-Civil War designs (1989.0280).

Claudine K. Klose: 4 plastic toys including a bathroom set, sewing machine, rocking chair, and a vacuum cleaner, ca. 1946 (1988.0631).

Marion Koehler: 19 pharmaceutical samples, 1983 (1984.0389).

The Bank of Korea, New York Representative Office (through Stella L. M. Cerruti): 6-piece uncirculated coin set of the Republic of Korea, 1988 (1988.0775).

Carol L. Kregloh: 2 infant's shirts, 1986 (1989.0051).

Kroloff Marshall & Associates (through Janette H. Brown): 3 transcripts, 3 pamphlets, 3 tickets, 2 programs, 2 brochures, a button, and a T-shirt, all from the presidential and vice-presidential debates, 1988 (1988.0704).

Barbara E. Kuhns: combination pencil and paperclip made by Okaya of Japan (1986.0791).

Kyocera Corporation (through Dr. Y. Hamano and M. Miyazaki): 4 ceramic turbo-charger rotors (1988.0171).

Labor Institute of Public Affairs (through Larry Kirkman): 4 videotape cassettes, 3 newsletters, 2 balloons, 2 bumper stickers, 2 lapel pins, 2 buttons, and a brochure, all from the "Union YES" campaign, 1988 (1988.0826).

Kathryn H. Lance: woman's beaded evening dress, 1926-27 (1989.0198).

Lance Woodcraft Products (through John E. Foster): rosewood judge's gavel, 1987 (1988.0178).

Harriet Augusta Tusler Langer in memory of Harriet Conners Tusler: bandanna commemorating the U.S. Centennial, 1876 (1988.0666).

League of Women Voters (through Nancy W. Neuman): 13 documents and a banner from the 1980 presidential debates and 15 documents and a T-shirt from the 1984 presidential debates (1988.0303).

James K. Leavitt: information packet on the political views of Pat Robertson (1988.0745).

J. A. Lehans: set of 3 type-A transistors, ca. 1949 (1988.0811).

Lehigh University, Fritz Engineering Laboratory (through Dr. Roger G. Slutter): aluminum water pipe, laminated timber, structural steel beam, steel wire rope, and a welded steel bar, all compressed or tension-tested (1988.3036).

P. Leiner Nutritional Products, Inc. (through Gale K. Bensussen): 19 vitamin and mineral products, a T-shirt, and an advertising display (1983.0083).

Lenox, Incorporated (through Stephen F. Lichtenstein): 7 plates, 6 bowls, 2 divided serving dishes, cup with saucer, cup, creamer, and a sugar bowl with lid, all made of melamine plastic about 1960 (1988.0696).

Maxine M. Leon: spool box shaped like a school desk with "inkwell hole" thimble-holder, 20th century (1989.0481).

Bernard R. Levine: 12 table knives, and 2 forks, 19th century (1988.0763); nickel-silver fork marked for use by the U.S. Army's Medical Department, 1870-1910 (1988.0764).

Alan R. Levinstone, M.D.: 2 Univac 1105 core planes, ca. 1960 (1988.0804).

Alan and Elaine Levitt: 189 advertising materials used by Mr. and Mrs. Levitt at Sherman Pharmacy in Sherman, New York (1988.3090).

Hope Anthony Levy: 5 needlework accessory containers and a Berlin embroidery pattern, all 19th century (1988.0203).

Jay A. Lewis: Union Porcelain Works cream pitcher and covered sugar bowl used as salesman's samples (1989.0104).

Ingrid E. Liedman: sash with 20 buttons and 4 stickers, "Women Against Military Madness" (1988.0641).

Eli Lilly and Company (through William F. Pillow, Jr.): 28 pharmaceutical products (1982.0153); Archives (through Anita Martin): 11 drugs, 6 syringes, 2 test kits, 2 needles, a sterilizing flask, and an insulin demonstration kit (1982.0498).

Jesse Limoli: silver Canadian medal honoring Elvis Presley (1989.0035).

Susan B. Lisk: woman's wedding dress with petticoat and drawers and a photograph of the bride, Mary Susan Stubblefield Carpenter, married on May 12, 1896 (1988.0725).

Marguerite C. Little: diploma awarded to James Henry Herndon, M.D. in 1848 and a medicine chest used by Dr. Herndon (1989.0204).

Ralph Lockwood: triple-model horn made by Helmut Finke of West Germany, 1977 (1986.0707).

Reuben O. Logan: practice sorting case used by Martin Musolf during his career with the U.S. Post Office, 1920-61 (1988.0053).

Lonestar Cement Company (through Perry R. Keeton and John H. Delong):

6 cement briquette molds and a Tinius Olsen cement-testing machine (1988.3033).

William M. Lubar: pair of safety goggles, 1936-40 (1989.0319).

Nunzio A. Luce: 22 pieces of electronic watch material, 1970-79 (1987.0359).

Wm. F. Ludwig, Jr.: pair of snakewood drumsticks (1988.0150).

Lufkin Industries, Inc. (through Joseph P. Byrd III): Lufkin Mark II pumping unit, Grasshopper (1983.0086).

Capt. Joseph F. Madeo, Jr.: 3 Shraeder diving pumps, 2 Morse jigger diving pumps, 2 telephones, a sea anchor oiler, diving transceiver, K.G. cutting torch, K.G. heating tanks, diving ladder, blasting machine, beach gear blockset, fairlead, and a self-contained diving apparatus (1979.0521).

Christine M. and Dr. Christopher Magee: 3 dresses, a tunic, skirt, and a blouse worn by Mrs. Magee, 1969-72 (1988.0549).

Rube Mandel: 5 fonts of iron printing type (1989.0011).

Marklin, Inc. (through Frederick E. Gates): Z-scale model train equipment including a steam locomotive, 2 gondola cars, box car, tank car, and a caboose (1988.3153).

Markson Science, Inc. (through K. E. Stine): 2 packets of Markson "Cracker" ampule fracture and safety collars, patented in 1981 (1982.0453).

Julius H. "Groucho" Marx (through Arlene M. Breitbart): 98 letters and 5 sets of correspondence, 31 play and movie scripts, 17 scrapbooks, 11 folders of sheet music, 9 folders and a box of miscellaneous articles and papers, and 6 folders of photographs (1988.3083).

Albert S. Matlack: 2 slide rules (1989.0032).

Helen S. Mattison in memory of Dr. Richard V. Mattison and Royal Mattison, Jr.: bronze 6-pounder muzzle-loading Spanish cannon tube used in Colonial America, made in 1631 (1988.0815).

Edith P. Mayo: 16 buttons, 16 leaflets, 4 T-shirts, 3 brochures, 3 bumper stickers, an audiotape cassette, banner, card, handout, newspaper, record jacket, and a poster (1988.0708); letter, brochure and envelope from the League of Women Voters in reference to the 1988 Presidential debates (1988.3162).

Sue P. McCann: German pistol (1988.0420).

Mack R. McClure: railroad transit made by Kolesch and Company of New York (1989.0409).

Margaret S. McComb: 3 crocheted pot holders made by Mrs. McComb's mother, ca. 1900 (1988.0503).

Wayne E. McGovern: 2 silver coins of the Samanids of Persia, A.D. 975-995 (1988.0772).

Mary McKelvey: 16 early 20th-century paper clips (1987.0491).

Ida E. McKeown: Crescent No. 7 boy's bicycle, ca. 1895 (1988.0813).

Medtronics, Inc., Neuro Division (through Linda Frederickson): transcutaneous electrical nerve stimulation device and an Itrel implantable neurological pulse generator (1985.3026).

Charles Alan Melton: coin commemorating the founding of The People's Party at a convention held May 19-20, 1891 in Cincinnati, Ohio (1988.0678).

Steven Memoli: sextant made by H. Hughes & Son Ltd. of London, ca. 1944 (1989.0548).

A. S. Menke: Miner Ideal locomotive tender hand brake of cast steel, 1941 (1989.0365).

Meriden-Stinehour Press (through Stephen Stinehour): book about printing in New York State by Douglas C. McMurtie, 1928 (1989.0464).

University of Michigan, School of Public Health, Department of

Biostatistics (through Prof. Felix Moore): instruction pamphlet for a Burroughs Moon-Hopkins billing machine (1989.3084).

Richard Mihalyi: 20 ducats and medals of Austria and Hungary, 13th to 20th centuries (1989.0263).

Ronald E. Miller: Rumely Ideal Separator threshing machine, ca. 1920 (1988.0371).

Mary S. and Victor L. Minter: package of surgical needles (1988.0603).

Margaret E. Moffatt: photograph of Generals Eisenhower and MacArthur emerging from a building (1989.0187).

Alfred F. and Loretta M. Moglie: Telechron electric wall clock, 1940s (1987.0473); Royal Quiet Deluxe portable manual typewriter (1987.0644).

Loretta M. Moglie: violin made by Albert F. Mogli, 1923 (1988.0749).

John R. Molenda, Ph.D., MPH: 28 educational articles, pamphlets, posters, greeting cards, photographs, signs, and charts about venereal disease (1985.3090).

Mary Jane McCaffree Monroe: camisole belonging to Mamie Eisenhower, plaque, and a cloth flag with buttons representing the 48 states (1988.0540).

William J. Moon: white molded glass globe for a Red Crown gasoline pump (1989.0289).

J. E. Morgan: Indian Model O motorcycle of 1918, piece of original tire, set of accessory tools, and a Virginia motorcycle license plate of 1920 (1989.0330).

J. Tom Morgan, Jr.: 72 examples of commercial lithography, 1930-88 (1988.0662).

J. Tom Morgan Enterprises, Inc. (through J. Tom Morgan, Jr.): lithograph of an unfinished portrait of Franklin D. Roosevelt painted by Madame Shoumatoff (1988.0713).

Elting E., John H., and Robert S. Morison: 5 U.S. Internal Revenue stamps (1988.0055).

Morrison Molded Fiber Glass Company (through Clinton B. Smith): 2 sections of fiberglass structural beams (1988.3038).

Julia M. Morton: 2 man's skirts designed and made by Ms. Morton, 1988 (1988.3093).

John Mosher: British mail bag made of woven plastic (1988.0397).

Motorola Museum of Electronics (through Sharon Darling): 3 cards, 2 badge holders, a CEO pin, and a "Quality" poster (1988.0583); 2 videotape cassettes, a pamphlet, fact sheet, and a memo (1988.3126); "Quality" flag (1989.0008).

Constance E. Mottaz (through Harold A. Scott): "The Favorite" autoharp made by the Phonoharp Company of East Boston, Massachusetts, 20th century (1989.0516).

Mount Holyoke College, Department of Physics (through Edward P. Clancy): Societe Genevoise dividing engine (1987.0692).

Francis M. Moyer: dip pen with mother-of-pearl handle (1987.0208).

Lt. Col. William B. Mozey: WARALARM mechanical alarm clock (1988.0212).

R. P. Multhaupt: Hemmi bamboo slide rule (1989.0443); set of Schoenner drawing instruments distributed by Technical Supply Company (1989.3072).

Murjani International, Ltd. (through Richard H. Hosp): pair of woman's blue denim jeans designed by Gloria Vanderbilt, 1978 (1988.0415).

Mrs. John H. Murray: 2 plastic combs, 2 imitation pearl necklaces, an evening bag, wallet, plastic peacock brooch, and a man's wrist watch (1988.0702); 9 cookie cutters, 2 toy cookie cutters, 2 chocolate molds, an ice cream mold, baking pan, 24-piece toy kitchenware set,

and a 4-piece toy measuring spoon set (1988.0829); 2 chalices, 2 candlesticks, a plate, covered bowl, coffeepot, creamer, and a sugar bowl, all made of pewter (1989.0122); cast iron mold, 19th century (1989.3013).

Murrey & Sons Co., Inc. (through Pat Murrey): set of billiard balls (1987.3096).

Mystic Seaport Museum (through B. A. G. Fuller): copying lathe used to make wooden insulator pins for telephone poles, a blade, and 2 pins, ca. 1902 (1987.0603).

Dr. Alixa Naff: 11 domestic objects of Arab-American origin, early 20th century (1988.0451).

Patricia Floyd Nagel: dress, veil, shoes, stockings, teddy, brassiere, garters, invitation, and 3 photographs from the wedding of Anne O'Sullivan Floyd, September 19, 1925 (1989.0108).

Paul C. Nagel: top hat with box, sachet, and key belonging to Henry Adams, 19th century (1988.0760).

Dr. Perham C. Nahl: 316 U.S. first flight covers and postal cards (1987.0879).

Dr. Dorothea A. Nahm: Sony Betamax video cassette recorder (1988.0546).

National Association of Letter Carriers (through Vincent R. Sombrotto): 9 National Biennial Convention badges, 1970-86 (1988.0225).

The National Security Political Action Committee: 4 videotape cassettes and a "Political Action" kit (1988.0743).

National Woman's Christian Temperance Union (through Michael Carlucci Vitucci): 4 posters, 3 packets, and a catalog, all about substance abuse (1988.0834).

Emily Rose Nelson: tin-plated sheet iron steam cooker made by the Toledo Cooker Company of Toledo, Ohio, ca. 1907 (1989.0301).

Jeff Nelson: 2 posters and a T-shirt with the headline "Meese is a Pig" and text supporting the message (1988.0647).

The New England (through John A. Fibiger): Elizur Wright's arithmeter calculating rule patented in 1869 (1989.0366).

New Orleans Exposition: 429 examples of machine-made laces from St. Pierre Les Calais, France, ca. 1885 (1987.0416).

Government of New Zealand, Post Office Philatelic Bureau (through G. W. Warner): 19 mint stamps of New Zealand (1987.0098).

Kathryn C. Newcomb: 6 newspapers from the Presidential Inauguration of 1949 (1988.3161).

Elmer G. Nicks: Dr. Pepper vinyl advertising banner (1984.3003).

Nielson Media Research (through Laurence Frerk): 7 personal television viewing diaries, a Nielsen people meter, and a remote control (1988.0825).

Nike, Inc. (through Susan L. Sears): man's and woman's athletic clothing including 6 exercise outfits, 4 headbands, 3 pairs of socks, and 2 pairs of shoes (1988.3124).

Government of Niue, Niue Post Office, Philatelic Bureau: 15 mint stamps, 3 first day covers, and a souvenir sheet of Niue (1988.0479).

Janice Bradford Norcutt: woman's brown suede "chain link" belt, 1968 (1988.0669).

W. F. Norman Corporation (through Mark S. Quitno): stamped steel ceiling panel (1988.3044).

North American International Mint (through Robert M. Bianchi): silver medal commemorating 85 years of the teddy bear (1988.0523).

George A. Norton: National Radio Institute pin (1988.0295); 3 slide rules

with 2 instruction sheets and an adder with instructions (1988.0807); Young Engineers' Guide book, business reply card, and a manual for a Fordson tractor (1988.3110).

Numismatic and Antiquarian Service Corporation of America, R. M. Smythe & Company, Inc. (through Douglas B. Ball and John E. Herzog): 15 Colonial and Continental currency notes, 1748-78, and 2 Depression scrip plates, 1933 (1988.0790); 41 European lottery tickets of the late 19th to early 20th centuries, a Swedish bank note of 1711, Danish bank note of 1810, and a Chase National Bank specimen signature booklet of 1931 (1988.0816).

Harold J. Nussbaum: 8 silver and gold Masonic medals, 1970-77 (1988.0560).

Alden S. T. O'Brien: woman's gray silk bonnet, 1850-55 and a man's collapsible black silk top hat with its original box, 1880-1920 (1989.0142).

Odetics, Inc. (through J. Slutzky and L. W. Welsch): Odex I walking robot and controller, 1983 (1986.0452).

Olin Defense Systems Group (through Donald W. Griffin): cartridge and shell display board (1987.0392).

Omnis Surgical, Inc. (through Robert G. Munson): clear plastic human back model and a model of a human back with removable skin and spine section (1984.3054).

Oriental Medical Supplies (through Rahl L. Felt and Thomas A. Riihimaki): 28 pieces of acupuncture equipment, models, posters, and documents (1985.3027).

Catherine B. Orne: 2 U.S. award medals and a Canadian award medal which honor scientific achievements, 1943-54 (1988.0712).

Laura Osborn: mechanical paradox invented by Francis C. Osborn (1980.0580).

Stephen E. Osman: pair of military blue wool convalescence pants, ca. 1918 (1988.0564).

Susan O. Ostroff: 19 pieces of sheet music (1988.0538); 19 pieces of sheet music (1988.0693).

Mrs. Gladys C. Page: autograph album used by Carrie Miller of San Francisco, California, ca. 1902 (1989.0071).

Mary L. Partello: Dalton's "Little Giant" adding machine, 1920s (1988.3122).

Betty Lou and H. L. Payne: dumpy level made by Elliott Brothers of London, ca. 1875 (1989.0482).

Herbert L. Pelham: 26 Chinese, Bolivian, German, and U.S. coins and 2 U.S. tokens (1988.0613).

Pencil Makers Association, Inc. (through William L. MacMillian III): 22 plastic boxes showing the stages of wooden pencil manufacture (1987.3113).

Dane A. Penland: T-shirt and information packet from the "International Shadow Project 1985" commemorating the 40th anniversary of the atomic bomb being dropped on Hiroshima, Japan (1989.0085).

Carol M. Perkins: 2 maps, a 1964 Emmy certificate, pith helmet, and safari jacket, all used by Marlin Perkins of the television series, "Mutual of Omaha's Wild Kingdom" (1989.0182).

David Perlman (through Rev. Claude A. Heitman): working patent models for 6 timing devices, a signaling apparatus, and a flash tube, all invented by Mr. Perlman between 1925-1940 (294915).

Pamela L. and Richard F. Peterson: T-shirt with Spiro Agnew as Mickey Mouse depicted on the front (1989.0361).

Thomas M. Pettus: battle flag of Nazi Germany (1987.0059).

Ann Lafferty Pfeiffer: woman's 2-piece wool suit, 1900-10, and a satin

brocade ballgown with beaded fringe by Worth, 1909-14 (1988.0682).

George A. Philbrick: vapor-liquid equilibrium computer, Universal K5-M linear operator, and a Polyphemus automatic control analyser with a set of 5 flow charts and a box of accessories (1988.0659).

Margot Phillips: woman's dress designed by Claire McCardell, 1948-50 (1988.0577).

Pittsburgh Corning Corporation (through Thomas Chris Gross): wall section of 20 glass blocks (1988.3056).

The Port Authority of New York and New Jersey (through Jan M. Beitzer and Harry A. Fischer): George Washington Bridge roadway expansion joint (1988.0107).

Linda M. Post: 2 pairs of white elbow-length kid leather gloves, 1890-1910 (1988.3088).

Harriet S. Potter: maroon velvet and silk dress and a photograph of Susan Kendrick wearing the dress on Christmas Day, 1884 (1989.0004).

Powell Corporation (through George Powell): Powell "Honeycomb Pool" skateboard, 1978 (1987.0737).

Pratt-Read Corporation (through Charles A. Ruhe): Denominator counter and a Knox calculating rule (1988.0795); 6 sets of ivory and plastic key pieces, scales, and gauges used to make piano keys, a scale board, parts cross-section board, key facing machine, and a set of piano wires (1988.3167); ivory-working tools including a bow drill, bow drill stock, hand plane, and a chain saw and employee clothing including a company basketball uniform top and shorts, 2 employee identification badges, and a first aid arm band (1989.0073); scalometer and a scale, both used to determine the moisture content of ivory (1989.0105); electric glue pot (1989.0107); 13 ivory desk accessories and a celluloid game counter (1989.0114); 2 ivory nit combs and an ivory toothpick (1989.0124).

Douglas S. Price: pill box, "Cleveland & Stevenson 1892" (1988.0652).

Jon Provost: pair of blue jeans, red gingham shirt, and black high-top sneakers worn by Mr. Provost while playing Timmy in the television series "Lassie," 1957-64, and a "Lassie" script (1989.0009).

Pucci International LTD. (through Ralph Pucci): female and male mannequins designed by Andree Putnam for Pucci International of New York City, 1988 (1988.3074).

Gordon Purdy: Boehm molded porcelain plate commemorating the U.S. Constitutional Bicentennial with "Birds and Flowers of the Thirteen Original States," 1987 (1988.0007).

Cynthia Williams Putnam and David Mike Putnam: 2 sweater vests, 2 medals, a trophy, program, scrapbook, knit shirt, and a T-shirt from Fred Williams' career as a marble champion, 1939-41 (1988.0643).

Jean B. Quinnette: 37 phonograph records and 4 album containers (1988.0375).

Quota International (through Gene Wheeler): Diebold electric "Cardineer" rotary card file, 1938-45 (1988.0324).

Andrew Rainer: packet of information from the 1988 Democratic National Convention held in Atlanta, Georgia (1988.3170).

Rhoda A. Ratner: button, "Librarians for Dukakis '88" (1989.0304).

Rawlings Sporting Goods Company (through M. Scott Smith): 2 sets of baseballs, a set of basketballs, set of photographs, and a football (1987.3103).

Thomas Reardon: set of collotype progressive prints for a Rembrandt postcard (1989.0212).

Henrietta Rechtschaffner: mug, medal, vase, and a manicure kit, all

collected at labor conventions in 1968 and 1972 (1988.0679); 2 charms, a pin, and a brooch (1989.0364).

William G. Renwick (through Peter T. Gianas and Samuel P. Goddard, Jr.): 132 muskets, rifles, carbines, shotguns, pistols, revolvers, a hand cannon, and an air gun (245168).

The Rexall Group (through Armend Szmulewitz): 29 vitamin and health products (1983.0084).

J. E. Rhoads & Sons, Inc. (through John P. McGough and Kevin N. Wooters): 3 lengths of flat leather power transmission belting (1988.3123).

Cathy and Marie Rich: 31-piece drum set built by Slingerland Radio Kings, 1938-40, and used by Buddy Rich from 1983 to 1987 (1988.0665).

Patricia H. Rich: diamond-patterned silver thimble interlined with steel, marked "Dorcas," early 20th century (1989.0336).

Alice G. Richie: tufted counterpane inscribed "Jinny M. Lusk 1814" (1989.0203).

Fritz Richmond: washtub bass made by Mr. Richmond in 1962 (1988.0563).

Elaine and Max Rimler: wall regulator used by the Camden & Amboy and the Pennsylvania Railroads, made by E. Howard & Company, ca. 1850 (1987.0448).

Howard B. Rindge: gold leaf coil applicator, ca. 1895 (1987.0602).

Edwin K. Robinson: 3 pieces of sheet music (1988.0759); sheet music for a Democratic Party campaign song (1989.0099); molded plastic razor box (1989.0444).

William M. Robinson: algebra textbook by Joseph Ray, 1848 (1986.3060).

Rochester Museum and Science Center (through Daniel M. Barber): French double-barrel shotgun (1987.0390).

Rock-A-Bye Baby, Inc. (through Marie M. Shields): Rock-A-Bye bear, videotape cassette, sound box, integrated circuit, and a photograph of the circuit (1989.0158).

Ralph Rohweder: Auto-Typist automatic typing reproduction system, late 1930 (1988.0430).

R. G. Rolfe: 2 liquid crystal display watch modules (1987.0454).

Bruce L. Roloson: 224 transistors, diodes, transistor parts, and electron tubes (1988.0451).

J. Alan Romich: patent certificate of freedom issued on November 9, 1846 for Elizabeth Carter of Leesburg, Virginia (1988.0594).

Mickey Rooney: 2 Academy Award nomination certificates, 1940 and 1943, and a theater program for A Midsummer Night's Dream (1988.0511).

Terrence R. Roos: 6 lens cleaning cloths, 2 sunglass lens color samples, and a pair of sunglasses (1988.0261).

J. William Rosenthal, M.D.: sterling silver monaural stethoscope (1989.0392); book, Pike's Scientific and Medical Instruments (1989.3046).

M. Howard Rowe (through Mary Wert): souvenir program of the 1919 World Series and 2 sports programs, 1974 and 1979 (1986.0830).

Emile J. Roy: 2 bookmarks and a button from the 1989 Presidential Inauguration (1989.0321).

Harry R. Rubenstein: phonograph record from the musical The Pajama Game (1988.3136).

Fath Davis Ruffins: 3 woman's dresses made of printed African fabrics, 1970-85 (1989.0175).

Capt. Carol A. B. Rupe, M.D.: 8-piece U.S. Air Force maternity uniform (1989.0080).

SPS Technologies, Aerospace Products Division (through Richard W. Sellars):

eye-bolt used to fasten tubes on missile launchers, 1987 (1987.0855).

Sue Ann Sadler: set of 8 aluminum tumblers anodized in 8 different colors, 1940s (1988.0627).

David Sarnoff Research Laboratory, Television Research Laboratory (through Jack S. Fuhrer): 3 experimental videodiscs (1989.0154).

Clara G. Schiffer: print, "Women at the Polls in New Jersey," published in Harper's Weekly, November 13, 1880 (1989.0102).

James H. Schrum in memory of Robert E. Mitchell: 3 presidential inaugural editions of the The Evening Star, 1937 and 1941 (1989.3057).

Michael W. Schultz: flight cover with promotional folder from the first roundtrip transatlantic flight in May 1937 (1988.0060).

Lois R. Seidler: U.S. Public Health Service uniform and hat cover (1986.0935).

Phillip Seitz: 10 condoms, a condom request card, and a disposable tuberculosis tester (1988.0736).

Tom Selleck and Universal Pictures (through Kerry McCluggage): 2 baseball caps, a gold ring, and a Hawaiian print shirt, all worn by Tom Selleck on his television series "Magnum P. I." (1988.0409).

Anne M. Serio: "Ginny" doll with wardrobe, "I Love Lucy" paper doll set, and a "Judy Holliday" paper doll book, all 1953-54 (1988.0531); Waring electric blender, 1966 (1988.3117).

David H. Shayt: K-D brand valve spring lifter for a 1934 Ford Model A automobile (1988.0827); section of Litco particle-board fork-lift pallet (1988.3085).

Frank J. Sheridan: U.S. Army officer's wool jacket and trousers made in Melbourne, Australia, 1942 (1988.0544).

Tess Sholom: scarf designed by Ms. Sholom for the 1985 Presidential Inauguration (1988.0624).

Mary Dickson Shryock: raised patchwork quilt top and a pink silk crepe crib cover with a matching pillow cover (1989.0268).

Shugart Associates (through J. S. Campbell): Shugart SA400 disk drive and 3 binders and a folder containing information about the company (1982.3017).

F. Marcus Shulze in memory of Loraine Nelson Shulze: floral-patterned wool carpet given as a wedding gift in September 1885 (1989.0269).

Milton L. Schurr: 14 photographs of New York World's Fair Hall of Health, 1939 (1988.3166).

Frederick W. Side: experimental radio tube designed and built by Mr. Side, 1923 (1987.0630).

Lena P. Simmons: "Sheep's Foot" combination hammer and prying tool (1988.0599).

Paul Simon for President Committee: schedule of fund raising events (1989.0133).

Caroline L. and Nelson C. Simonson: family Bible owned by farmer Stokely Sturgis of Kent County, Delaware, 18th century (1989.0296).

George Sinnott: 2 man's dress shirts, 1955 (1989.0195).

Edith H. Smith: "Kennedy '60" bracelet and a "Card-Carrying Member of the ACLU" button (1989.0131).

Lynn R. Smith: font of celluloid-faced wood type (1987.0685).

Myron R. Smith: 3 slide rules, 3 adding machines, a manual adder, and an adding machine teaching device (1989.0325); book, Applied Mechanical Arithmetic as Practiced on the Comptometer, 1920 (1989.3054).

Charles Smithgall: television lifeline transmission wire, ca. 1948 (1988.0146).

Smolian Sound Restoration Studios (through Steven Smolian): polyvinyl chloride phonograph record, 1950s (1988.0105).

Irene Snelling Smyth: 2 child's caps made in Denmark by Mrs. Smyth's mother, 1920s (1988.0358).

Snapper Power Equipment (through Anthony A. Malizia): "Snappin' Turtle" lawnmower, 1949 (1988.0571).

Sony Corporation of America, Corporate Communications (through Jason Farrow): Sony "Watchman" portable television (1989.0194).

Sony Video Software Company (through John O'Donnell): 7 videotape cassettes comprising the series, "Vietnam, A Television History" (1987.3050).

Carol W. Sorensen: gasoline-powered laundry iron, ca. 1935 (1989.0210).

Gertrude Souther: 2 U.S. postal covers (1988.0054).

Barry Spann: collotype print, Cold Mountain, by Mr. Spann (1988.0517).

Penny Speckter: 2 cast iron miniature printing presses, ca. 1885; a sheet metal miniature printing press of the early 20th century; Zuccatto's "papyrograph" copying printer, ca. 1875; and a signed typometric portrait of Beatrice Warde (1988.0823).

Spectra-Physics, Construction and Agricultural Division (through Robert J. Makenas): laser surveying level, optical detector, and a power converter (1985.0417).

Harvey G. and Norman Stack: 6 Continental currency notes dated February 26, 1777 (1988.0773).

Christopher K. and Rosemary Steele: 3 self-standing pyrometric cones patented by Richard E. Steele in 1973 (1986.0285).

Henry R. Stiffel: 38 parking meters, 2 parking fine receptacles, and a parking fee receptacle (1988.0814).

Lois Greene Stone: 7 playbills, 2 souvenir cups, a football program, opera program, rodeo magazine, and a WW II war emergency identification card (1988.0672); American Indian doll, 1953 (1989.0170).

Edward G. Stowell: unused stamped envelope (1988.0382).

Nellie M. Streng in memory of Mary Scott Grigsby: ink pen with case, 1880s (1986.0860).

Raymond C. Stricker: 10 Eli Lilly pharmaceutical sales kits used by Mr. Stricker, late 1920s and 1930s (1989.0380).

James H. Stubblebine (through Marvin Weinstein): Seven Goal Sammy stoneware figure by Russel Aitken, 1934, and Poor Man's Punch Bowl designed by Viktor Schreckengost, 1931 (1988.0233).

Casey and Richard H. Stultz in memory of Alfred Edgar Stultz: Smith carbine, 1857 (1988.0634).

Gary K. Sturm: "World Time Card" travel alarm clock by Seiko, ca. 1989 (1989.0126).

Alfred Suarez, M.D.: folding nickel-plated binoculars in a black leather case (1988.0685).

Louise and Michael B. Suessmann: Mont Blanc Meisterstuech fountain pen (1987.0897).

M. J. Sullivan: "THINK" notepad with refill paper (1989.0046).

Donald H. Sultner (through Haldeman S. Wertz): German postage stamp and a Swiss postage stamp (1987.0600).

Summitville Tiles Inc. (through David W. Johnson): 3 ceramic plaques featuring Ronald Reagan, George Bush, and Jack Kemp (1989.0177).

Therese A. Svat: 3 proof prints and a zinc plate used to make the etching Rebirth by Ms. Svat, 1987 (1988.0821).

Walter Swan: postage due cover with precancelled stamps dated July 23, 1958 (1988.0381).

James McK. Symington: set of 5 graphical firing tables in a case (1988.0248).

Tanaka Dental Products (through Bruce Swanson): "Big Teeth" dental anatomy kit (1989.0345).

Neil Taxy: 4 mint stamps of Israel (1988.0444).

Ernest H. Taylor: 49 fonts of foundry-style type matrices (1988.0235).

Comdr. Jay E. Taylor: dictating unit, transcription unit, headphones, telephone system, and set of plastic discs, all part of Thomas A. Edison's VoiceWriter dictating system (1989.0449).

Nancy Lane Terry: 3 fragments of resist-printed cotton fabric from China, 1988 (1989.0278).

Frances G. Thompson: silver-plated pitcher decorated in high relief, made by Simpson, Hall, Miller & Company of Wallingford, Connecticut, ca. 1880 (1989.0338).

Tinius Olsen Testing Machine Company, Inc. (through John C. Millane): cloth bag filled with lead shot and a shot-weighing scale, both for use with a cement-testing machine (1988.3018).

Adelle and Erwin Tomash: set of 14 drawings of the Scheutz difference engine made at the Dudley Observatory in Albany, New York (1988.0798).

Travel Industry Association of American (through F. O'Rourke): "Discover American" plaque, ca. 1965 (1988.0828).

Trow & Holden Company Incorporated (through Norman Akley): stonecutter's double-headed steel hammer, ca. 1987 (1987.0846).

Betty M. Tubbs: 5 summer khaki uniform items and 3 evening dress blue uniform items worn by Lt. Col. Randolph Coyle, USMC, 1937 (1988.0628).

Mildred E. Tucker: woman's silver ring set with a blue stone and white beads, 1900-30 (1988.0556).

Marie Tyler-McGraw and Howard M. Wachtel: 68 buttons, 9 posters, a postcard, and a pin (1988.0661); 4 political posters (1988.3140).

United Nations Postal Administration: 614 stamps and 12 souvenir sheets of the United Nations (1988.0436).

United Shoe Machinery Corporation (through Kevin Cochrane): 129 containers of photographic and documentary records of the United Shoe Machinery Corporation, 1899-1976 (1987.3124).

U.S. Central Intelligence Agency: German Luger revolver and a French D'Armes St. Etienne revolver (1987.0220); French Unique semi-automatic pistol made by D'Armes Des Pyrenees Hendaye (1989.0457).

U.S. Department of Commerce, National Bureau of Standards: slated globe (1989.0188); Center for Building Technology, Structures Division (through Dr. Charles Culver): steel-reinforced mock-up of concrete column joint from the Soviet-built U.S. embassy in Moscow, 1987 (1988.3034); National Telecommunications and Information Administration (through Fred A. Hand): teletype keyboard with tape reader (1981.3037).

U.S. Department of Defense, Defense Intelligence Agency, Defense Intelligence School: General Electric Datanet teletype machine with acoustic coupler (1981.3034); Department of the Air Force, Air Defense Tactical Air Command (through Lt. Col. Joseph H. Gerard): 20 components of the Semi-Automatic Ground Environment (SAGE) computer system, in operation from 1952 to 1983 (1983.0298); Rome Air Development Center, Griffiss Air Force Base: 12 components of a Control Data Corporation 160 computer (1977.0173); Headquarters, AFMPC/DPMASA (through Stanley M. Duda): Brazilian Taurus automatic pistol and a reproduction Spanish flintlock pistol (1987.0227);

Security Police Armory: Heckler & Koch presentation assault rifle made for the Saudi Arabian Forces (1987.0387); 3246 Test Wing: 3 Colt Industries submachine gun/rifles (1987.0228); Department of the Army, Center of Military History (through David C. Cole): flag bandanna honoring Gen. William Henry Harrison, "The Hero of Tippecanoe" (1988.0635); Consolidated Property Account: chest of Mannlicher-Carcano ammunition (1987.0918); (through John D. Wakefield): Italian pistol, Austrian Steyr pistol, Belgian Fabrique Nationale pistol, German Walther pistol, German Heckler and Koch pistol, Colt pistol, Sig Marenmont pistol, and a Smith and Wesson pistol (1987.0906); Frontier Army Museum (through Stephen J. Allie): 5 Stoner machine guns, 2 Colt submachine guns, a Stoner rifle, Stoner carbine, ArmaLite rifle, Harrington and Richardson rifle, linker/delinker, and a magazine loader (1987.0370); HW DA (DPFL-ALP): Argentine Army presentation pistol made by F. M. Browning (1987.0386); Letterkenny Army Depot: Beretta semi-automatic pistol (1988.0021); New Cumberland Army Depot (ONAG) (through John D. Wakefield): M12 holster and an ammunition pouch (1987.0475); Office of the Chief of Military History, Historical Services Division (through Col. Raymond C. Ball): 448 ENIAC computer components (308932); Patton Museum of Cavalry and Armor: Austrian Roth-Steyr pistol, German Dreyse pistol, and a Czechoslovakian pistol (1987.0391); experimental AR-15 rifle and carbine (1988.0017); prototype assault rifle, sniper's rifle, and an Italian assault rifle (1988.0040); 2 Springfield rifles, a Johnson rifle, British Enfield rifle, Swiss Army carbine, and a Czech rifle (1988.0118); Rock Island Arsenal (through John D. Wakefield): M9 Baretta pistol (1987.0516); U.S. Army Missile Command: 4 pieces of material radiated by the MICOM Long-John laser and a wooden plaque (1985.0347); Department of the Navy, David Taylor Research Center, Ship Structures Division (through David P. Kihl): compression-tested steel I-beam of a ship deck component (1988.3035); U.S. Department of Defense, Headquarters DAPC-ALA: 2 Browning pistols, a Smith & Wesson revolver, and Taurus pistol set with magazine and cleaning brush (1985.0107); Office of the Deputy Assistant Secretary of Defense: .41 caliber Colt revolver with accessories (1988.0612); ceremonial sword decorated with floral rhinestones and a gold-plated sheath (1989.0348); double-barrel presentation shotgun engraved "Caspar Weinberger" on the stock (1989.0349); presentation long sword decorated with brass, bone, and rhinestones (1989.0350); Office of the Director of Administration and Management, OSD: 2 presentation submachine guns (1989.0347); OSD: presentation dagger in a brass sheath (1989.0351); brass presentation saber (1989.0352); wood and ivory replica of a gun used by Angolan Freedom Fighters (1989.0456).

U.S. Department of Health and Human Services, National Institutes of Health, National Institute of Dental Research (through Rinah J. Ham and Michael Roberts, D.D.S.): package of 5 stainless steel dental instruments (1988.0729).

U.S. Department of the Interior, Geological Survey, Branch of Global Seismology and Geomagnetism (through John D. Wood): 5 magnetometers, 4 earth inductors, 2 variometer sets, a galvanometer, dip circle, and a tilting dumpy level (1982.0671); National Park Service Clearinghouse (through Anthony M. Knapp): bronze Mexican War trophy cannon made in 1844 and surrendered at Vera Cruz on March 29, 1847 (1989.0206).

U.S. Department of Justice, Federal Bureau of Investigation, National Crime

- Information Center: Model 28 ASR teletype terminal used since 1967 (1989.0433); Immigration and Naturalization and Service, U.S. Border Patrol: 5 Colt Border Patrol revolvers, 5 Colt New Service revolvers, and a Colt Police Postitive revolver (1989.0185).
- U.S. Department of State, U.S. Consul of Prague, Austria-Hungary: 121 handmade bobbin laces made in Austria-Hungary, ca. 1903 (1987.0415).
- U.S. Department of Transportation, Maritime Administration, James River Reserve Fleet (through Tom Robards): 69 objects from decommissioned ships which make up a WW II era Combat Information Center (1989.3060).
- U.S. Department of the Treasury, Bureau of Alcohol, Tobacco and Firearms: Colt AR-15 rifle with scope attached (1986.0695); 2 Winchester rifles, 2 Remington rifles, a Weatherby rifle, Colt double-barreled shotgun, AMT pistol, Colt revolver, Fiala Arms pistol, Japanese Miroku shotgun, and a Belgian Fabrique Nationale pistol (1988.0001); Belgian pistol and a conversion kit (1988.0432); 2 Mossburg rifles, a Remington rifle, Winchester rifle, Ted Williams rifle, Springfield shotgun, and a Spanish Llama pistol (1988.0761); Dallas District Office: U.S.-made Hi Standard pistol, Baur pistol, Explorer II pistol, Springfield rifle, Explorer rifle, Winchester rifle, Italian Galesi-Brescia pistol, and a Spanish Zabala shotgun (1988.0587); Evidence Vault: Belgian Fabrique National D'armes DeGuerre rifle (1987.0389); Weatherby Vanguard rifle and a Sturm Ruger rifle (1987.0478); 6 Smith & Wesson revolvers, 2 Winchester rifles, 2 Ruger revolvers, 2 Colt revolvers, and a Noble shotgun (1987.0591); 2 Chinese rifles and a U.S. carbine (1988.0237); New Haven Post-of-Duty Vault: Weatherby rifle, Ruger semi-automatic rifle, and an Iver Johnson Cattleman's model revolver (1987.0440); Seattle District Office: 2 SWD Cobray machine pistols with silencers, an Underwood carbine, and a SWD M-11 pistol (1988.0530); Seized Property Section: 2 Rossi revolvers and an Interdynamic pistol (1986.0694); Western Regional Laboratory: 4 Winchester rifles, 2 Marlin rifles, a Mauser rifle, Sturm Ruger rifle and revolver, and a Smith & Wesson revolver (1987.0219); Bureau of Engraving and Printing (through Ira Polikoff): 2 collages of state seals printed on the Spider press in Cincinnati, Ohio on July 24, 1988 (1988.0561); U.S. Customs Service, Southeast Regional Commissioner: Sterling MK4 P submachine gun set with magazine (1985.0225); U.S. Mint: 81 U.S. and foreign coins and medals received before 1923 (1988.0063).
- U.S. Legislative Branch, Library of Congress, Copyright Office, Information and Reference Division (through Joan A. Doherty): 7 T-shirt transfers, 3 T-shirts, 2 bowler's crying towels, 2 hand puppets, and a "Peanuts" pennant (1988.0483); Exchange and Gift Division (through Judy C. McDermott): 21 tickets to various political functions and 13 plaques, 9 medals, 2 pins, a trophy, charm, button, card, pen, and a certificate awarded to Dr. Margaret Mead, a Weigl test kit, and a dress made for Dr. Mead for use in the field on Marcus Island, 1928-29 (1984.0106); transverse table alidade with leather case made by Keuffel & Esser Company of New York, ca. 1936 (1984.0343); 22 pieces of jewelry, 21 membership cards, 14 buttons, 9 patches, 8 badges, 2 academic stoles, a hunting license, felt letter, pamphlet, plaque, string tie, key chain, and a medal (1984.0374); album containing miscellaneous admission tickets, an ivory stamp inscribed "EKE" with an ink pad, and a steel punch inscribed "CHF" (1984.0415); 1,564 covers, 380 stamps, 16 stamped envelopes, 6

aerogrammes, 3 postcards, a pamphlet and souvenir with first day cancellations, Kodak mailing box cover, and an international reply coupon (1984.0531); set of 32 blank recording sheets for John W. Draper's self-recording barometer, 4 fountain pens, 2 quill pens, a mechanical pencil, leather pen holder, and a steel pen with holder (1984.0539); 2 religious medals, 2 Apostleship of Prayer pieces, a Catholic identification cross, cross with printed card, and an advertising medal (1984.0560); 77 awards and medals given to Dr. Margaret Mead, 32 stock certificates of U.S. corporations, 9 medals, 7 pieces of Confederate States of America currency, 6 pieces of French currency, 4 pieces of Brazilian currency, 2 pieces of 18th-century American currency, 2 pieces of 19th-century U.S. currency, 2 municipal bonds, an Austrian gold coin, WW I U.S. war savings certificate, and a 1971 U.S. Eisenhower dollar (1984.0614); 328 miscellaneous political campaign objects and memorabilia (1984.1081); naval shoulder patch from the USS Rushmore, WW II (1985.0292); medal with rosette and case for Exceptional Civilian Service awarded to Dorothy A. Troxel and a Prisoner of War band badge used at Andersonville Prison during the Civil War (1985.0786); set of drawing instruments by E. O. Richter & Co., a Gorn Knudsen pen, jeweler's screwdriver, and a group of 3 Eagle leads (1985.0909); jacquard-woven silk commemorative menu for a banquet given in honor of William H. Taft (1986.0275); eyeglass holder (1986.1018); 2 sets of Brazilian bank notes, 2 psychological apparatus, a set of squares, safety deposit box key, circuit board, and a printing plate, all used by George von Bekesy (1986.3180); cased Remington revolver (1988.0452).

U.S. National Aeronautics and Space Administration, Goddard Space Flight Center: Monroe IQ calculator with instruction pamphlet (1988.0663); Abbe comparator, 1960s, and an Ainsworthy & Sons semi-micro balance with a set of weights (1988.0664); Jet Propulsion Laboratory (through F. W. Malinowski): 4 modules of the SDS-910 computer (1988.0674).

U.S. Office of Personnel Management, Alexandria Distribution Center (through David P. Funsten): 2 fallout shelter medical kits and a Civil Defense Sanitation kit (1987.0521).

U.S. Panama Canal Commission (through G. E. McElroy): 2,593 official seals, 822 covers, 819 stamps, 379 postal cards, 257 meters, 235 postmark impressions, 184 trial impressions, 120 pieces of original art, 86 air letter sheets, 82 money orders, 56 penalty cards, 21 rubber stamps, 13 printing blocks, 10 dies, 6 booklet covers, 4 documents with specimens, 4 design changes, 4 ungummed sheets, 3 wooden handles, a rolling pin, and a sample electrotpe validation plate (1987.0236).

U.S. Postal Service, International Postal Affairs Department (through Irma Harrison): 171 stamps of Nicaragua, 120 stamps of Austria, and 27 stamps of South Africa (1987.0070); International Relations Branch (through Michael J. Regan): 8,769 stamps and souvenir sheets of the Universal Postal Union Nations (1987.0235); (through Irma Harrison): 1,999 stamps, 17 souvenir sheets, and 9 covers of Austria, the People's Republic of China, Mozambique, and South Africa (1987.0507); Philatelic and Retail Services Department, Stamps Division (through Don McDowell): 37 commemorative panels (1988.0068).

Unknown: 25 U.S. and foreign bank notes and 5 U.S. medals (1988.0166); 2 T-shirts with Reagan-Bush slogans, 1984 (1989.0097); 2 buttons with slogans favoring the Vietnam War (1989.0363).

Utah State Tax Commission (through Roger O. Tew: 6 tax stamps for illegal

drugs, 1988 (1988.0335).

Cal T. Vance: Odyssey electronic game (1989.0048).

Francois Van Hoof: modern impression in tin of the reverse of a Russian Empire 10-kopecks piece of 1871 (1988.0064); 2 modern impressions in tin of an 1863 Russian Empire 2-kopecks piece (1988.0782).

Varian Associates, Research Center (through Dr. John C. Helmer): photoelectron ESCA spectrometer, ca. 1970 (1989.0067).

Henry Velasco: milling machine end cutter (1988.3043).

VentuResearch (through Roger L. Hummel): 6 watches and a clock powered by water batteries (1988.0585).

Carol Ann and David J. Vetter, Jr.: 8 pieces of clothing, 7 toys, 7 books, 5 cloth bags, a room sign, award ribbon, placemat, pillow case, alcohol pad, baby formula, and a baby blanket, all used by David, the "Bubble Boy," 1971-84 (1986.0201).

Robert M. Vogel: portable watchmen's clock with 2 keys and a box of recording tapes, made by Detex Watchclock Corporation (1987.0216); VariTyper 360 typewriter for large engineering plans and drafts, fitted with 12 typing elements, 1960s (1987.0406); micrometer caliper made by J. T. Slocomb Company (1988.0406).

Von Fange Tool Company, Inc. (through Thomas Von Fange): beryllium-copper cabinetmaker's hammer (1987.0689).

Evelyn Wagman: Tucker-style "Spider" pattern porcelain cup, 1826-38 (1988.0234).

Janice Wajda: Motorola radio, 1948-49 (1988.0148).

James D. Walker, R.S.: wooden watchmaker-jeweler's bench, 1945 (1989.3042).

Susan N. Wallace: leather wallet for U.S. war bonds (1988.0771).

Robert M. Warfel: check writing machine made by the Todd Protectograph Company, ca. 1923 (303852).

Hilda S. Warner: 6 infant's shirts, a bib, cap, pair of child's drawers and a christening blanket (1988.0388).

Jack R. Warner: Hewlett-Packard 250 business computer system in a set of 6 components (1989.0023); 13 manuals, 5 pieces of duplicate hardware, and 3 hard disks which were used with a Hewlett-Packard 250 computer (1989.3009).

Carol L. and Robert D. Warrington: silk U.S. flag with 26 painted stars (1989.0408).

Washington Pain Center (through Dr. Lorenz Ng): "TENS for Pain Control" poster and a dental needle (1985.3045).

Harriet Wasserman: scrapbook, notebook, and a poster from the Falcon Trio comedy aerial act, 1912-31 (1985.0167).

C. Malcolm and Joan Pearson Watkins in memory of Lura Woodside Watkins: 5,069 stereo cards and 18 glass stereo views, 1850-1920s (1988.3071).

LaVerne Watkins: 3 sets of drawing instruments, a polar planimeter, and a Pelikan Graphos penholder set (1989.0305); 18 surveying instruments used in Arizona and New Mexico, 1880-1985 (1989.0403); Curta calculating machine and an Otis King calculating rule with 2 instruction papers (1989.3049); surveyor's graduated ring compass and an instrument case (1989.3064).

Robert Field Watkins III: leaflet, "National Stand Up For Dukakis Day Rally," dated October 24, 1988 (1988.0707).

Donald L. Watson: Model ASR-33 teletype computer terminal (1989.0575).

Lorraine Watson in memory of Charles C. Koontz: English pepper box revolver with case and accessories (1987.0496).

Louise B. Weis: black textured wool coat with fur trim, a photograph of

Mrs. Weis wearing the coat, and a matching hat, 1934-35 (1989.0150).

Mary-Lou Weisman: poster, "Menopausal Women Nostalgic for Choice" (1989.0373).

Charles E. and Vickie Weitzenhofer: 2 baseball buttons (1989.0030).

John E. Welch: spyglass made by Negretti & Zambra of London for the Signal Corps of the Confederate Army (1988.0739).

Philippa C. Weld in memory of Sumner Appleton Weld: 4 fragments from the Star Spangled Banner, 1814 (1988.0637).

Ellen B. Wells: 29 boxes of direct mail advertisements sent to Ms. Wells, 1976-1984 (1987.3120).

Wesleyan University, Department of Physics (through Robert B. Taylor): Stackpole & Brother transit, Adam Hilger spectroscope/spectrometer, ca. 1885, Lerebours dip needle, 1830s, and a Pike & Son solar microscope (1989.0013).

Wheal-Grace Corporation (through Emil R. Salvini): 2 prints made using the "shadow-etch" method developed by Wheal-Grace Corporation of Lyndhurst, New Jersey (1988.0822); 3 progressive prints made using the "shadow-etch" method developed by Wheal-Grace Corporation of Lyndhurst, New Jersey (1989.0095).

John H. White, Jr.: Prest-O-Weld oxyacetylene blowpipe and a Weldit Acetylene Company torch head (1989.0084).

Roger B. White: motor camper souvenir plate, ca. 1967 (1988.0808).

Stanley S. Whitham: magnetic wire recording of Japanese popular songs made by Sears, Roebuck & Company, ca. 1950 (1989.0007).

Helen H. Whitlock: folder of 6 photographs recording discovery of the 9Champlain astrolabe (316352).

Mrs. Lois W. Wickham: 2 maid's uniform aprons and hats and a berry basket (1986.0802).

Frances F. Williams: hat made and worn by Ms. Williams at the 1988 Democratic National Convention in Atlanta (1988.0527).

Dr. Michael R. Williams: APF Mark V electronic calculator (1989.0047).

Polly F. Williams: U.S. Navy Midshipman's dress blue jacket and trousers, 1931, and a Lieutenant's undress blue uniform frock coat with trousers and evening dress coat, 1930-49 (1988.0472).

Dorothea M. Wisman: 2 packages of needles, a tape measure, spool of nylon thread, crocheted needle and thimble holder, and a package of Bucilla nylon yarn (1988.0718).

Anita Tuohy Wolver: 14 contact lenses, cases, scleral lenses, corneal lens, eye molds, and spectacles relating to work done by Keven M. Touhy in the development of contact lenses (1988.0336); 38 pieces of documentation relating to Keven M. Touhy's research in the development of contact lenses (1988.3082).

The Women's Project of CDI, Inc.: poster for the National Women's Conference to Prevent Nuclear War, 1984 (1989.0086).

L. A. Wood: 2-cylinder Maytag gasoline engine and a Maytag multi-motor oil quart can, 1950 (1989.0404).

Albert Arthur Woodward, Ph.D. (through William P. Kelly, Jr.): bracket clock with tortoiseshell case made by Thomas Tompion, ca. 1698 (1986.1019).

Worcester Polytechnic Institute, Department of Physics (through Ralph Heller and Thomas H. Keil): vernier caliper with case (1987.0916).

Helena E. Wright: 14 paper specimens (1989.0040).

Evelyn and Paul A. Wurtzel: photograph, call sheet, and a final script from the television series "M*A*S*H" (1988.0667).

Xerox Corporation, Xerox Palo Alto Research Center (through Linda Brandt):
Xerox Alto and Star personal computers, 1970s (1989.0432).

Jay Dee and Joan Yearous: Star razor blade and a sample of Mentholum
(1984.0730).

Jane Griffin Yeingst and William H. Yeingst: set of jar wrenches, 1930s;
mirro aluminum cookie and pastry press, 1950s; and a set of ironware
dinner service, ca. 1951 (1988.3119); "Cootie" game, ca. 1952, and a
child's "Super Hero" costume, 1983 (1989.0064); McGraw Electric
Company "Toastmaster" toaster, ca. 1936, and an envelope of decorated
wax paper, 1930s (1989.3017).

Hizeko Yoshimura: cartidge belt, pistol belt, first aid pouch, and a
canteen with cover and cup (1988.0644).

Joan M. Young: "Obsession" perfume bottle, 1985 (1988.0809).

Victor Yuliano: 17 8-track audiotape cartidges and a carrying case
(1988.0497).

Charles H. Yust, Jr.: feed strip for Benet-Mercie machine gun (1987.0388).

Louis A. Zanoni: 3 electronic watch modules, 2 sets of electronic watch
displays, a Chronar calculator watch, and liquid crystal display clock
(1987.0358).

Marian Elsie Metcalf Zimmerly: woman's Timex electric wrist watch
(1987.0490).

David B. and Frankie Zurav: set of 10 artificial fingernails hand-painted
with flag and patriotic motifs by Sue Ellen Schultes for Mrs. Zurav to
wear at the inaugural events of 1989 (1989.0327).

NATIONAL MUSEUM OF NATURAL HISTORY

Donors to the National Collections

Personal

Jeffrey B. Aardahl: 285 mollusks (377728, 378370, 378918).
Dr. Tucker Abbott: 5 mollusks (373347).
Dr. Mohamed Abou-El-Eneim: 6 fossils (384152).
Nancy E. Adams: 37 misc. insects (387548).
William Adams: 8 freshwater snails (382602).
Dr. P. H. Adler: 112 insects (387338).
Steve Ahlstedt: 26+ freshwater clams (382555).
Dr. Bruce Allen: 59 plants (384908).
Joseph J. Anderson: 696 beetles (387333).
Kenneth H. Anderson: 75+ freshwater mollusks (265208).
Comdr. Richard A. Anderson: 437 butterflies (382428, 383470, 387531, 387607).
J. Phillip Angle: a bird skeleton (379085).
Joallyn Archambault: a Yanktonai Sioux spirit (death) bundle (380541).
Dr. Paul H. Arnaud, Jr.: 4,084 insects (387565).
Roy Ash: 2 minerals (381549).
Wallace L. Ashby: a fossil land mammal bone (380263).
Mr. & Mrs. Wallace L. Ashby: 2 fossils (381128, 382517).
Dr. Allan C. Ashworth: 8 insects (387616).
Dr. George T. Austin: 2 insects (387602).
Jon Bachman: a fossil peccary canine (385155).
Dr. L. Baert: 16 beetles (385087).
Dr. R. P. M. Bak: 100+ worms (349545).
Mr. & Mrs. J. Wayne Baker: 3 fossil whale skulls (382523).

Dr. George E. Ball: 5 Mexican beetles (387532).

Dr. Lain Bangdel: 2 Nepalese temple paintings (364314).

M. F. Barada: a Moroccan woman's caftan, a Tibetan hat, Chinese pajamas, a silk robe and cap (362994).

Carlos do Prado Barbosa: 11 minerals (381501, 383014, 383017).

Roger C. Barnett: 5 minerals (383019).

Dr. Hans Bath: 14 fishes (382853, 383727).

Dr. William C. Bean: 23 fossil seal and whale remains (382532).

Dr. Clark W. Beasley: a crustacean slide (383124).

Mrs. H. Lay Beaven: 16 archeological and ethnological Sioux artifacts (364363).

Steve Beck: 300 fossil microvertebrates (380237).

Dr. Vitor O. Becker: 11 caddisflies (387566).

Dr. Denton Belk: 43 crustaceans (361180).

Dr. Cole Benton: 18 spiders (387610).

Robert L. Bertolo: 2 minerals (383035).

Meredith Berwick: 2 fossil fish teeth (385210).

Phillip Betancourt: 2 minerals (381527, 384530).

Dr. W. E. Bickley: 28 insects (387256).

Richard Bideaux: 5 minerals (378900).

Lance T. Biechele: a plant (383943).

W. B. Biggart: a mineral (381540).

Dr. Bill Birch: 3 minerals (381507).

Jack Blair: 11 fossil vertebrates (384134).

Dr. Daniel B. Blake: 5 fossils (383425).

Dr. Robert B. Blodgett: 135 fossil gastropods (384159, 384178).

Dr. R. M. Bohart: a wasp (382804).

Dr. Iris Y. Borg: 636 minerals (373586).

Drs. Marie L. & Edgar F. Borgatta: a 22,892.5 cts topaz (THE AMERICAN GOLDEN) See also The American Federation of Mineralogical Soc. (379615).

Dr. Richard L. Bottorff: 1,061 stoneflies (387614).

Dr. Raymond W. Bouchard: 54 crustaceans (315738).

Dr. Arthur J. Boucot: 17 fossil brachiopods (384195).

Bridgit Brill: a fossil fish tooth (385194).

Major J. Brodzinsky: a fossil moth (387561).

Mary Brooks: 6 crustaceans (374755).

Dr. Robert W. Brooks: 6 sawflies (387138).

Dr. Arthur V. Brown: 2 crustaceans (377415).

John Buckalew: a bird skin (370821).

David Bunk: 2 minerals (386138).

Mrs. Beatrice L. Burch: 454+ echinoderms (377423).

J. B. Burch: 79 mollusks (271639).

Dr. Eugene M. Bureson: a worm (382786).

Dr. George W. Busby, III: 2 butterflies (387547).

Dr. Gary R. Byerly: 2 polished thin sections residue of the GREENWELL SPRINGS, Louisiana meteorite (384638).

Dr. George W. Byers: 26 centipedes (387321).

Curtis J. Callaghan: 103 butterflies (387585).

Dr. A. G. Carey, Jr.: 10 crustaceans (381794).

Dr. William Carlson: 7 minerals (384588).

Dr. John H. Carson: 2 fossils (385887).

Rick Carter: 16 fossil vertebrates (382535).

Caroline Chaboo: 14 freshwater clams (383184).

Ralph Chamness: a portion of a fossil gannet skull (381067).

Paul E. Chanley: 383+ marine clams (281339, 287265).

John Chapman: 100+ crustaceans (378468).

Hideyuki Chiba: 9 Japanese butterflies (387260).
Alice Church: a fossil sea turtle bone (385209).
John Cianciulli: a mineral (383027).
Barbara Clark: a cuneiform tablet (367818).
Dr. J. F. Gates Clarke: 1,070 insects (387340).
Spencer Cocherl: a fossil seal canine (380265).
Dr. E. I. Coher: 31 flies (387339).
Dr. Richard W. Coleman: 2 crustaceans (381716).
Timothy Collins: a fossil (383403).
Carl Cook: 8 dragonflies (387623).
Steven Coon: 2 fossil blowfish vertebrae (385143).
Ann S. Cooper: 170 vials of synthetic crystals (384556).
Candace Corson: a fossil monk seal jaw (382500).
Paul J. Cory: 10 minerals (378211).
Dr. Charles V. Covell: 5 butterflies (387318).
Kenneth W. Craddock: a fossil amphibian (380260).
Dr. William L. Crepet: See Also Dr. Carl W. Schafer (387571).
Elizabeth M. Cridlin: See Aslo Urella Hill (385821).
Jarrett L. Cross: 7,579 misc. insects (387528).
Forrest & Barbara Cureton: a mineral (383041).
Bruce Cutler: 302 misc. insects & arthropods (387317).
Dr. Edward B. Cutler: 3,000+ worms (380888).
Dr. Walter W. Dalquest: 2 slabs of fossil Acanthodian spines (381133).
Ruth P. Danforth: 12 crustaceans (375657).
Neil E. Dankert: 3 butterflies (387327).
Prof. Charles N. D'Asaro: mollusks egg capsules (383175).
Dr. Hieronim Dastych: a crustacean slide (386524).

Dr. Anthony D'Attilio: 2 mollusks (366139).

Dick Dayvault: a mineral (384522).

Dr. Anne DeBevoise: 25,000 worms (382781).

Larry Decina: 5 fossils (382529, 384153).

Mary DeDecker: 4 plants (383900).

David J. de Laubenfels: 138 plants (386430).

Dr. Daniel Desbruyeres: a worm (380899).

S. Sydney DeYoung (deceased): a red diamond (377258, bequest).

Susan M. Divine: a Korean woman's costume (364318).

Dr. Peter S. Dixon: 1,063 plants (381869, 381878, 386007, 386484).

Douglas Dodd: 75 fossils (379233).

Masahiro Dojiri: 2 crustaceans (379956).

Douglas Donald: 3 fossil monk seal bones (382455).

Ann Ford Doyle: an album of 42 Chinese brush paintings (358148).

Jean Drivas: 55 mollusks (367887).

Dr. Arnold T. Drooz: 26 sawflies (387322, 387324).

Dr. Sidney W. Dunkle: 28 insects (387543, 387627).

Red Dwyer: a fossil seal metatarsal (381098).

Dr. Robert F. Dymek: a mineral (381508).

Dr. W. Eberhard: 152 spiders (387249, 387259).

Patricia M. Eckel: 74 mosses (382741).

Dr. Robert L. Edwards: 4 spiders (387246).

Corrine Ehrlich: 6 worms (382771).

Mr. & Mrs. Michael Ellwood: 3 fossil seal bones (385843).

Dr. Hamed A. El-Nakhal: 6 fossils (385902).

Dr. Dodge Engleman: 721 insects (387272).

Roland Eriksson: 13 minerals (382989).

David P. Ernstes: 2 plants (385777).
Dr. Christer Erseus: 82 worms (382744, 382758).
Dr. D. H. Erwin: 6 fossils (385187).
Elva Escobar-Briones: 23 crustaceans (371271, 373151).
Dr. Ralph Eshelman: 4 fossil vertebrates (384137).
Dr. H. H. Evenhuis: 23 wasps (387576).
John D. Everette: 5 fossil vertebrates (382527).
Dr. W. C. Fallaw: 3 fossil fish skulls (382508).
Dr. Rodney M. Feldman: 14 fossil barnacles (381106).
Benny J. Fenn: a mineral (383015).
Frederick F. Ferguson: 50+ snails (294362).
Dr. B. A. Ferril: 10 fossil brachiopods (384187).
Dennis E. Figg: 15+ snails (384061).
Dr. Michael Fleischer: 2 minerals (381484).
John F. Flennicker: 2 moths (387620).
Dr. Herve Floch: 60+ mollusks (260859).
Riusseau M. Flower: 2 land snails (373266).
George C. Fonger: 80 fossils (382463, 385132, 385192, 385203).
Mrs. Marilyn Force: a fossil (382531).
Donald J. Forrester: 1,144+ mollusks (245060).
Mercedes S. Foster: 10+ echinoderms (372262).
Jim Fowler: 2 minerals (384519).
Dr. Dirk Frankenberg: 3 marine mollusks (254130).
Richard Franz: 160+ crustaceans (377376).
Jeffrey V. Freeman: 85 freshwater snails (381028).
Dr. Amnon Freidberg: 1,499 misc. flies (387330).
Dr. C. G. Froehlich: 125 stoneflies (387253).

Dr. D. G. Furth: 22 sawflies (387223).

Jean-Yves Gallard: 184 butterflies (387331).

Frank Garcia: 2 fossil vertebrates (382536).

Julio Garcia-Gomez: 14 crustaceans (379984).

Mr. & Mrs. John Garris: 2 fossil seal bones (381100).

Kjell Gatedal: 9 minerals (382955).

Dr. M. Gentili: 50 spiders & 3 flies (387248).

Howard Scott Gentry: 31 plants (385537).

Arthur Gerck: 2,933 fossil invertebrates (381111).

Dr. Ray Gibson: a worm (384463).

Lance Gilbertson: 4 mollusks (381968).

Dr. Rosemary Gillespie: 7 spiders (387247).

Derham Giuliani: 765+ freshwater snails (376764, 378795, 381242).

Prof. Folco Giusti di Massa: 10+ snails (378939).

Bonita Glaser: 2 true bugs (387587).

Peter W. Glynn: 3 crustaceans (380020).

Dr. M. Ray Godfrey: a plant (383255).

Janet Gomon: 8 fossil fish skeletons (381081).

Prof. Donald M. Gooch: 10+ mollusks (283711).

Dr. Robert H. Gore: 3 crustaceans (367147).

Pat Gotsis: a fossil tooth (385842).

William E. Gould: a zircon (384543).

David W. Grabda: 22 fossil vertebrates (382533).

Dr. Cynthia Gradek: 3+ crustaceans; 100+ worms (383085).

Fred Grady: a bird (382406).

Arthur T. Grant: a mineral (386129).

Richard D. Greene: a Hopi sash & kilt (380506).

Mark Grygier: 10 corals (383654).
 Hank Guarisco: 52 misc. spiders (387270).
 Lloyd F. Gunther: 701 fossils (383443, 384141).
 Mr. & Mrs. Lloyd F. Gunther: 231 slabs of fossil plants (384164).
 Val Gunther: See Also Dr. R. A. Robison (379289).
 Dr. Johnny Gusdon: a mineral (384544).
 Dr. Courtney T. Hackney: 12+ crustaceans (378461).
 Gilles Hainault: See Also Arthur T. Grant (386129).
 William Hale: a fossil horse tibia (385906).
 Dr. R. B. Halliday: 2 mites (387252).
 Dr. Tatsuo Hamano: a crustacean (380013).
 Frances and F. N. Hammerstrom: 3 bird skins (381963).
 Dr. Richard Hammond: 3+ crustaceans (381767).
 Jacques Hamon: 16 wasps (387345).
 Prof. John Hanahan: approx. 600 minerals (381552).
 Walter J. Harman: snails (368206).
 Christopher Harmatuk: 29 fossils (380235, 385153).
 Peter J. Harmatuk: 763 fossils (378523).
 Dr. Chris Harris: a mineral (384524).
 Dr. Harold W. Harry: 200+ oysters (373286).
 A. D. Hart: 1,000+ land snails (376187).
 Peter Hattenschwiler: 14 moths (387611).
 Dr. Loren R. Haury: 25 crustaceans (378420).
 Frederick G. Hayes: a fossil carnivore jaw (382543).
 Craig Healy: a fossil blowfish skull (378527).
 Dr. Richard Heard: 4 crustaceans (378486).
 Bill Heim: 167 fossils (381057, 383430, 384105, 384142).

Maria Angelica Heineck: 6 beetles (387254).
Nancy Helm: 25+ crustaceans (381715).
Dr. Edward P. Henderson: a meteorite (386110).
Norlan C. Henderson: 347 plants (380936).
Dr. Stephen Hesselbo: 2 fossils (379290).
Gary F. Hevel: 11,588 misc. insects (387336).
Dr. Roger H. Hewins: a meteorite (384642).
Tim Hicks: a quartz (381477).
Dr. Robert P. Higgins: 10,000+ crustaceans (385011).
Urella Hill: a fossil skull (385821).
Mrs. Eleanor Hillman: 3 marine clams (289252).
Li Hing-Kun: 2 snails (377617).
Guillermo Schmeda Hirschmann: 39 plants (383570).
Dr. Richard Hoare: 207 fossils (385164).
Dr. Horton H. Hobbs: 2 worm slides (376314).
Dr. Richard L. Hoffman: 15+ crustaceans (373828).
Dr. Lincoln Hollister: 21 minerals (383034).
J. R. Holsinger: 120+ snails (376479, 383186).
Dr. Perry C. Holt: 83+ worms (slides) (377652).
Dr. Ralph W. Holzenthal: 5 insects (387544).
Jean M. Hooper: 3 fossils (380262).
Francis R. Horne: 20+ snails (383190).
Sid Hostetter: 2 fossil bird carpometarpus (380244).
Dr. Peter Houde: 3 birds (360435).
Dr. Michael R. House: 30 fossils (382453).
Jill Hovre: 100 mollusks (374708).
Dr. Brian Huber: 61 fossils (384144).

Leslie Hubricht: 65 snails (273828).

B. J. Huckenpahler: a wasp (387542).

George W. Hunter, III: snails (254728).

Randall D. Hunter: a portion of a fossil tapir jaw (383415).

Dr. Paul D. Hurd (deceased): 1,873 insects (387281, 387335).

Dr. John A. Hyatt: 4 butterflies (387320).

Mr. & Mrs. Frank Hyne: 779 fossil vertebrates (378567).

Ronald M. A. Ison: 96 fossils (381121, 384143, 385151).

Mr. & Mrs. Vernon Iverson: iron oxide pseudomorphs after pyrite (381502).

Dr. Michael Ivie: 219 beetles (387577, 387608).

Pierre H. Jabbour: a Punic jug (373810).

Lillian James: 3 figurines and a carved pipe (380514).

Dr. Samuel W. James: 4 worms (384489).

Dr. Daniel Janzen: 6 weevils (387556).

Maria Luisa Jimenez: 25 spiders (387269).

Dr. C. D. Johnson: 413 seed beetles (387279).

Dr. J. G. Johnson: 161 fossil brachiopods (382515).

Dr. James B. Johnson: 145 insects (387563).

Martin Johnson, Sr.: See Also Robert L. Bertolo (383035).

Robert Johnson: a fossil monk seal jaw (382538).

Joshua Jones: a fossil catshark tooth (385822).

Lt. Col. John Justice: 25 butterflies (387619).

Dr. M. P. Kahl: 2 mollusks (279056).

Dr. Michael A. Kaminski: 39 fossils on slides (383424).

Dr. Thomas W. Kammer: 2 fossils (385170).

Dr. Anthony R. Kampf: 5 minerals (370940, 383006).

Dr. Pieter Kat: 4 snails (377365).

Dr. R. Deedee Kathman: 6 crustaceans (382762).

Kathleen Kaupp: 62 Mexican masks (361596).

Dr. Isabel Kelley, Estate of: 83 Mexican textiles & wood artifacts (364366).

Michael G. Kellogg: 25+ snails (381266).

Dr. Edwin J. Keppner: 45 worms (376302, 380897).

Kim Keum-hwa: 4 Korean ceremonial items (364315).

Pastina Khaliq: a fossil tooth (385175).

Dr. Lynn S. Kimsey: 2 insects (387617).

Forrest Klies: 4 minerals (381505).

Dr. Stuart Knapp: 70+ snails (382624).

George Knowles: See Also Candace Corson (382500).

Dr. Alan Kohn: 8+ worms (384461).

Dr. Boris C. Kondratieff: 317 insects (384096, 387242, 387545, 387580).

Dr. H. H. Kool: 5 gastropods (380058).

Dr. Silvard Kool: 58 mollusks (368724).

Dr. Rita Korczynski: 20 crustaceans (381714).

Frank Koterba: 5 minerals (381547).

Dr. Eugene N. Kozloff: 4 worms (264832).

Alexander Kranz: a fossil (385886).

Dr. Peter M. Kranz: 25 fossil vertebrates (382464, 382486, 384107, 384171, 385809, 385812, 385841, 385868).

1st Lt. Kenneth A. Krieger: 2 snails (294090).

Dr. Frank E. Kurczewski: 246 flies (387567).

Mrs. Thomas Lambert: 3 fiber hats from Lesotho (362993).

Jerry Landye: 12,000+ snails (381402).

Walter W. Langley: 60 marine mollusks (283883).

D. C. Larkin: crustaceans (383082).

Sr. Luis E. La Rotta C.: 115 caddisflies (387530, 387551).
Dr. R. S. Lawler: 1,404 insects (387280).
Dr. John F. Lawrence: a beetle (387583).
Dr. James D. Lazell: a crustacean (377416); 20 insects (387326).
Dr. Harry G. Lee: 50+ snails & clams (282376).
Dr. A. Scott Leiper: 300+ worms (300750).
Dr. Rafael Lemaitre: 110 crustaceans (378451, 378463, 378464).
Dr. Jay Leverone: 116 worms (382768).
Dr. James T. List: a fossil (384147).
Dr. Jean-Pierre Lorand: a mineral (386159).
George Lucy: a fossil mastadon tooth (384182).
John C. Ludlum: 2 clams (302669).
Spencer R. Luke: 3 crustaceans (381701).
Ron Lupton: a mineral (384576).
William G. Lyons: a mollusk (363458).
Howard A. MacCord: 245+ mollusks (282141).
Amaro Macedo: 80 plants (382333, 383289, 383603, 384732).
Dr. Andy S. Y. Mackie: 4 worms (382755).
Dr. Norman MacLeod: 26 slides of fossils (385123).
Dr. Rosalie F. Maddocks: 15 crustaceans (374082); 56 fossils (383452).
Fred Magnusson: 3 minerals (386130).
Lynne Maillet: 6 cordierite w/granitoids (382572).
Dr. Zoran J. Maksimovic: 2 minerals (386139).
Dr. J. Maldonado: 7 insects (387334).
Dr. Royal H. Mapes: 7 fossils (383458).
Dr. R. Marinez: 12 clams (383185).
Sam Marshall: 143 misc. insects & arthropods (387312).

Dr. Robert L. Martin: a fossil walrus skull (385133).

Dr. Brian Mason: a meteorite, LUJAN, Argentina (386106).

Bryant Mather: a scorpionfly (387550).

Dr. James F. Matta: 20,000 aquatic insects (387276).

Dr. Michael Mazurkiewicz: 30+ snails (378938).

Dr. Anne B. McCrary: 42 worms (275606, 333190).

Colin McEwen: a plesiosaur vertebra (381149).

Marion McDowell: 6 crustaceans (349661).

Dr. George C. McIntosh: a fossil (386630).

Dr. Frank K. McKinney: 96 fossils (381102).

Dr. Robert B. McLaughlin: a fossil strew slide (385186).

Dr. James McLean: gastropods (371504).

Jack McLellan: 7,413 fossil fish remains (381063, 382499, 384160, 385193).

Jerry A. McLelland: 9 worms (380898).

John M. & Lucy McLuckie, Estate of: 2,500 fossils (384115).

Dr. Franco Mediolli: a fossil (384106).

Dr. John T. Medler: 5 bugs (387245).

Peter Megaw: 4 minerals (383032).

Raymond H. Meisenhalder: a beryl, 0.68 carats (381533).

Mari Mejia: a fossil mosasaur tooth (385851).

Dr. Marcello Mellini: a mineral (383030).

Dr. Eustorgio Mendez: 9 fleas (387596).

Eric Metzler: 86 moths (387615).

Dr. Julio Micheli: 120 beetles (387589).

Charles B. Miller: 37 crustaceans (377414).

Dr. John Miller: 2 worms (382790).

Laura Miller: 17 misc. lace bugs (387555).

Dr. William Miller, III: 25 fossils (382494).

Dr. Tomoyuki Miura: 3 worms 382784).

Dr. Ritsuro Miyawaki: a mineral (381524).

Mrs. Mary Jo Molineaux: 1,295 insects (387343).

Guillermo Moreno: crustaceans (380039).

Dr. J. P. E. Morrison (deceased): 30+ marine mollusks (276609).

Dr. Edward O. Murdy: 53 crustaceans (368142, 373774).

George Naff: 42 Egyptian artifacts (378937).

Dr. Ray B. Nagle: 126 moths (387341).

Pir Nasir: 25+ mollusks (298887).

Dr. Kurt Nassau: a mineral (384591).

Dr. Michael B. Nathan: 4 insects (387593).

Bruce C. Netschert: a fossil fish (383416).

Dr. Catherine Nigrini: 5 radiolarians (385181).

Charles Novak, Jr.: 28 minerals (384528).

Gordon Nowell-Usticke: 4 gastropods (259707).

Dr. Brendan O'Connor: 2 worms (353357).

Dr. Edward J. Olsen: a meteorite, EAGLE, Nebraska (386108).

Dr. Paul A. Opler: 341 butterflies (387539, 387612).

Cecilia Osorio R.: 2 mussels (260161).

Dr. B. H. R. Othman: 6 crustaceans (381703).

Dr. William Leslie Overal: 719 weevils (387549).

Eddie Overstreet: a fossil protocetid tooth (385180).

Tom Parks: a fossil cervical vertebra (384193).

Dr. Randy R. Patrick: 11 fossils with trace fossils, 3 slides with assoc. fragments (386613).

Joseph Pawlik: 33+ worms (346429).

Dr. David L. Pearson: a beetle (387605).

Mr. & Mrs. Joel Penn: 2 dinosaur bones (383445).
Prof. Charles A. Peters: marine shells (269599).
Dr. Ole V. Petersen: 15 minerals (383018, 383047).
Dr. Jon Petranek: 9 minerals (386140).
Dr. Ivan Petrov: a mineral (384568).
Dr. Edward J. Petuch: 24 fossil gastropods (381151).
Dr. Allan R. Phillips: 3 bird skeletons (385664).
Joseph Pinto: a dinosaur bone fragment (385885).
Sherry Pittam: 100 plants (381374).
John Pittman: 4 fossil vertebrates (382530).
Fred Plumb: 9 fossil shark teeth (383367).
Dr. Yves Plusquellec: a fossil cast (385122).
Dr. John T. Polhemus: 35 insects (387554).
Dr. Winston F. Ponder: a mollusk (367888).
Mark Ports: 15 land & freshwater snails (382554).
Charles W. Potter: a bird skin (384667).
Dr. Jerry Powell: 2 wasps (382632).
Dr. Shreedhar P. Pradham: 62 mosquitoes (387538).
Elizabeth Hayse Pratt: a fiber basket (363028).
Dr. C. Pregonzer: 11 crustaceans (378471).
Tom Pride: a fossil tapir tooth (381123).
Dr. Vernon W. Proctor: 30+ snails (377729).
Dr. K. P. Pruess: 94 flies (387529).
Dr. W. J. Pulawski: 9 wasps (382633).
Dr. Li Qiang: 32 wasps (387258).
Bernard Raffery: See Also Stephen Syphax (376285).
Russell A. Rahn: 1,174 butterflies & moths (382800, 383469, 387328, 387541).

Dr. W. F. Rapp: 2 scorpions (387271).

Dr. Jean-Yves Rasplus: 37 parasitic wasps (387553).

Dr. Warren J. Rathjen: a crustacean (378516).

Charles R. Read, Sr.: 4 minerals (381553).

Ken Reading: 15 crustaceans (378475).

Dr. Richard L. Reeder: a land snail (377614).

Jan Reese: 45 bird skins (382405).

Phillip Reese: a fossil (383442).

Dr. David Reid: 75 gastropods (368723).

Mandy Reid: 7 worms (380895).

George Reiger: 3 birds (382870).

Dr. Thomas Reinecke: 4 minerals (383029).

Dr. Donald J. Reish: a worm (259354).

Dr. Shuang K. Ren: 2 minerals (386158).

Dr. Johanna Resig: 19 fossils (383401).

Robert B. Richardson: 11 African agricultural implements (361324).

Dr. David Richman: 12 spiders (387255).

Dr. J. Keith Rigby: 29 fossils (383463).

Norman Riker: 2 fossil mammal vertebrates (380271).

Dr. Tyson Roberts: 25+ shrimps (369289).

Blake Robinson: 101 West African stone figures (362302).

Dr. Henry W. Robison: 133 crayfishes (378505, 379968, 380004).

Dr. Richard A. Robison: 2 fossils (379289); 13 fossil echinoderms (381113).

Rosa Vidal Rodriguez: a mummified hummingbird (381191).

Dr. David M. Rohr: 105 fossil gastropods (381115).

Dr. L. H. Rolston: 10 insects (387586).

Beppy Ronco: 2 minerals (382970).

Robert W. Root: 38 Philippino ethnological items (362991).

Vincent D. Roth: 358 spiders (387134).

Greg Rouse: 19 worms (382769).

Dr. Jose I. Saiz Salinas: 26 worms (380906).

Dr. K. S. Samson: 45+ mollusks (294773).

Kiel Sandved: 5 mollusks (274003).

Dr. Paul Sartenaer: 3 fossil brachiopods and plastercasts (385884).

Dr. Carl W. Schafer: an insect (387571).

Kathy Schaffer: a fossil peccary metatarsal (385831).

Dr. Rudolf S. Scheltema: 390 worms (384482).

Robert Schmidt: a fossil sperm whale tooth (380264).

Dr. Robert W. Schmieder: 100+ crustaceans (383152).

Jason Schoonover: 103 Devil Dance and Kolam masks and paraphernalia (364316).

Dr. David R. Schwimmer: 30 fossils (385826).

Mrs. Joanne Sedgewick: 96 fossils (385166).

Mr. & Mrs. A. James Seidl: 7 ivory & bone Eskimo artifacts (379712).

Dr. William A. Shear: a fossil centipede (383404).

Dr. Yoshihide Shiga: a mineral (382973).

Dr. Masaaki Shimizu: 3 minerals (382987, 384569).

Dr. Yoshihisa Shirayama: 5 worms (382770).

Dr. Thomas Shirley: 65+ crustaceans (376915).

Jan Shopland: a fossil dinosaur tooth (385888).

Dr. John A. Shuey: 3 butterflies (387325).

Douglas Siegel-Causey: 73+ crustaceans (378441, 378513).

David Oscar Siegert: 14 fossil vertebrates (380266).

Dr. Petra Sierwald: 111 spiders (387250).

Diana Silva: 38 spiders (387316).

Dr. Robert Sites: 50 plant bugs (383688).
Connie Smith: a fossil sea cow bone (384138).
Mr. & Mrs. Edward H. Smith: 81 ethnological artifacts (361230).
Elaine Smith: a portion of a fossil sloth tooth (384192).
Dr. Julian P. S. Smith, III: 4 worms (382747).
Dr. Lyman B. Smith: 14 paintings of plants (385585).
Dr. Richard Smith: 5 corals (381675).
Dr. Diana N. Solie: 13 minerals (381480, 382974).
Richard Soper: a fossil skull (385162).
Dr. Monica De Cassia de Souza Campos: 2 insects (387575).
Dr. Everett Spackman: 185 moths (387244).
O. D. Spencer: 4,120 butterflies (387337).
Dr. Sheldon Spencer: a fossil primitive whale jaw (381080).
Dr. Charles L. Staines: 2,478 insects (387557).
Dr. Michael G. Stamatakis: 10+ minerals (382972).
Dr. Clifford R. Stanley: a mineral (377234).
Dr. C. K. Starr: 91 insects (387332).
Henry M. Stevenson: a bird skin (379091).
Dr. Ross K. Stevenson: a mineral (384587).
William L. Stockton: 6 worms (307087).
Dr. Manya Stoetzel: 1,496 insects (387267, 387604).
Janet Stone: 116 West African artifacts (361235).
Ben M. Stout, III: 55 caddisflies (387546, 387568).
Anita L. Suazo: a Pueblo blackware melon jar (380508).
Dr. J. Bolling Sullivan: 495 insects (383694, 383865, 385685).
Connie Sutton: a portion of a fossil seal pelvis (381126).
Sean Sweeney: 10 gems (381499, 381523).

Mrs. Mary R. Swicegood: a fossil sea cow ribs & axis (381093).
Clyde Swindell: 88 fossil vertebrates (382524).
Stephen Syphax: 105 crustaceans (376285, 381797); a worm (381797).
Dr. Stanley W. Szczytko: 2 insects (387578).
Dr. Tsutomu Tanabe: 2 millipedes (387574).
Dr. Barbara Taylor: 25 crustaceans (381708).
Stephen F. Taylor: a humming bird skeleton (382392).
Dr. K. J. Tennesen: a dragonfly (387624).
Dr. Vincent Tepedino: 516 wasps (387591).
Margaret C. Teskey: 40+ snails (285333).
Earl Thompson: 16 fossil vertebrates (380223).
Dr. Fred G. Thompson: 40 mollusks (356856, 378668).
Tony Thompson: 4 mollusks (293773).
Dr. Jon Toal: 70+ crustaceans (381764).
Tambrey A. Tosk: 67 fossils (383444).
Dr. Robert Traub: 1,272 lice (387570).
Dr. V. Tunnicliffe: a crustacean (383078).
Paul Turner: 2 crustaceans (385077).
Mrs. Patricia E. Ulisse: a bird skin (383484).
W. C. Van Laer: a quart/w beryl (384571).
Dr. Wouter I. Van Tichelen: 7 minerals (381476, 384502, 386128).
Lic. Beatriz S. Varona: land snails (383169).
Dr. Stephen T. Viada: 20+ echinoderms (381651).
Dr. Emily H. Vokes: a fossil gastropod (381108).
Dr. Kurt Walenta: a mineral (369396).
Dr. Robert D. Ward: 1,625 insects (385508).
Dr. Ronald A. Ward: 19 slides of lice (387536).

Dr. Anders Waren: a mollusk (375618).

Gwendolyn L. Waring: 2 small moths (387573).

Jim Washington: See Also Douglas Dodd (379233).

Dr. Les Watling: 1,000+ crustaceans (381749).

Charles N. Watson, Jr.: 14 butterflies (387319).

Clifton S. Weaver: a marine mollusk (282007).

Albert & Alice Weeks: 350 boxes of vanadium & uranium ores (385374).

Dr. Robert E. Weems: a fossil turtle carapace (385156).

David Wells: 2 fossils (383389, 385878).

Mike Welzenbach: a fossil fish skeleton (383426).

Dr. John Weske: 5 birds (370820).

Jason West: a fossil protocetid tooth (385179).

Dr. James Westgate: a fossil sturgeon plate (381089).

Dr. Alfred G. Wheeler: 173 plantbugs (387613).

Dr. Craig M. White: a meteorite (378235).

Dr. D. R. Whitehead: 674 insects (387329, 387564).

Thomas E. Whiteley: 15+ fossils (383378).

Dr. J. E. Whittaker: 6 fossils in one microslide (385127).

Ronald Wielgus: 154 insects (387243, 387257, 387273, 387579, 387594).

Bob Wiest: 275 fossils (381124, 384130, 385840).

Gaye Williams: 7 fossils (385144, 385827).

Gwen N. Williams: 5 crustaceans (380045).

Dr. Barry Wilson: 16 mollusks (379938).

Mr. & Mrs. Steve Wilson: 2 fossils (385173).

Vivian J. Wilson: 81 insects (387606).

Mrs. Mary Winters: a mineral (384523).

Dr. Timothy S. Wood: 2 fossils (386626).

Eugenia I. Wright: a collection of mollusks (383177).

Kirk E. Wright: 29 crustaceans (376756).

Dr. John Wurdack: 2 insects (387315).

Ellis Yochelson: 73 fossils (381140, 385197, 386606).

Mrs. Lily Yochelson: 14 snails (376470).

Dr. Frank N. Young: 1,166 insects (387534, 387626).

Ken Young: 31 plants (382288, 382318).

Veronica Young: See Also Pastina Khaliq (385175).

Jeanne A. Zeh: 21 flies (387251).

Dr. Michael E. Zolensky: 2 meteorites (382909).

Dr. Victor A. Zullo: 15 fossil barnacles (381120).

Donors to the National Collections

Institutions

- A. Remington Kellogg Fund: 3 fossil whale skulls (383429).
- Aarhus University, Denmark: Herbarium Jutlandicum: 17 plants (382709, 385702).
- Academia Sinica, Taiwan: 3 plants (383231, 383569, 385759).
- Academy of Sciences of the USSR, Russia: V.L. Komarov Botanical Institute: 92 plants (384314).
- Alabama, University of: 41 plants (385576).
- Alaska University Museum: 4 bird skins and skeletons (382895, 383491).
- American Federation of Mineralogical Societies See Also Drs. Edgar F. and Marie L. Borgatta (379615).
- American Gem Society: 31 gemstone jewelry items (336073).
- American Museum of Natural History: 10 fishes (383725; 2 spiders (387609).
- Amoco Production Company: 111 fossils (384166).
- Arizona State University: 2 plants (383963).
- Arizona, University of: Herbarium: a plant (384760)
- Asociacion Mexicana de Orquideologia: 2 plants (381923).
- Auburn, University of: 7 insects (387590).
- Australian National University, Australia: 25 plants (385531).
- Battelle: 4 meteorites (386118).
- Bernice P. Bishop Museum: 51+ echinoderms (381669, 383684); 84 plants (386488).
- Biosystematics Research Institute, Canada: 101 insects (387314).
- Black Hills Institute of Geological Research, Inc.: 10 fossils (384114).
- Bossier Parish Nature Study Center: 5 plants (383946).
- Botanischer Garten und Botanisches Museum Berlin-Dahlem, Germany: 2 plants (384763).
- Brigham Young University: Monte L. Bean Life Science Museum: a crustacean (376757); 845 caddisflies (384047); 2 plants (384244, 385551).

British Columbia University, Canada: 18 echinoderms (333381); 3 crustaceans (374626).

British Museum (Natural History), England: 60 plants (381348); 7 insects (382809, 387274).

Calicut, University of, India: a plant (385701).

California Academy of Sciences: 207 fishes (382146); echinoderms including microscope slides (383653, 385438); 116 plants (384721, 385546).

California State University: Hayward Campus: 16 crustaceans (383122).

University of California: 22 crustaceans (372334); 2 worms (373883); 109 plants (382700, 384246); 3 insects (387119); Scripps Institution of Oceanography: 102 crustaceans (359849, 375768); 85 echinoderms (376790, 381665, 381688).

Cambridge, University of England: 2 plants (383319).

Canada Department of Mines, Canada: a slab of fossil brachiopods (382521).

Canfield Fund: 10 minerals (378898, 380424, 381504, 381517, 381532, 381537, 382967, 382969).

Carnegie Museum of Natural History: 8 plants (385706).

Casey Fund: 5,861 insects (387581, 387588).

Center for Research in Medical Entomology, South India: 5 insects (387535).

Centre O.R.S.T.O.M, France: Herbar: 454 plants (381905, 381907, 383288, 383298, 384930, 384954, 385539, 386306, 386422).

Centro de Agricultura Tropical, Colombia: 246 plants (386441).

Centro Internacional de la Papa, Peru: 152 plants (384963).

Chamberlain Fund: 3 minerals and a cut gem (381460, 381463, 383016, 383051).

Colegio de Postgraduados, Mexico: 52 plants (382684, 383565, 383623, 385524).

Colorado, University of: Boulder Campus: 5 plant bugs (385365).

Conservatoire et Jardin Botaniques de la Ville de Geneve, Switzerland: 52 plants (383244, 383618, 383894, 384765, 386416).

Copenhagen, University of, Denmark: 37 plants (385550).

Cornell University: 6 fishes (384331); 8 insects (387277).

Dauphin Island Sea Lab: 6+ echinoderms (322098).

Delaware Museum of Natural History: 46 clams (305737).
 Depto. de Oceanografia FURG, Brazil: a crustacean (373668).
 Desert Botanical Garden: 39 plants (383923).
 Dickinson College: 2 crustaceans (376323).
 Drake Fund: 5,867 insects (383222, 387597, 387618).
 Estafeta Universitaria, Panama: Herbario de la Universidad de Panama:
 228 plants (382354).
 Eastern Marine Fisheries Development Center, Thailand: 50+ crustaceans
 (385024).
 Field Museum of Natural History: 54 plants (384728, 386302, 386315, 386425,
 386477).
 Florida State University: a plant (383295).
 Florida, University of: 28 plants (381925, 383285); 89 insects (387540).
 Forschungsinstitut Senckenberg, West Germany: 18 echinoderms (379374,
 381679).
 Franklin & Marshall College: North Museum: 2 slabs with dinosaur footprints
 (379279).
 Friday Harbor Laboratories: 3 echinoderms (385426)
 Fundacao Instituto Brasileiro de Geografia e Estatistica, Brazil: 135
 plants (386446, 386461).
 Georgia, University of: 5 echinoderms (381696).
 George Mason University: 14 crustaceans (373298).
 Grice Marine Biological Laboratory: 469 crustaceans (374016).
 Harbor Branch Oceanographic Institution, Inc.: 4 echinoderms (379371,
 381686); Indian River Costal Zone Museum: 675 echinoderms (381670,
 383643, 385416, 385405, 385440).
 Harvard University: Herbarium: 2 plants (384719, 385564); Museum of
 Comparative Zoology: 19 insects (383692).
 Hawaii Undersea Research Laboratory: 20 fossil (383375)
 Hawaii, University of: a fish (380448); 9 echinoderms (381671).
 Hebrew University, Israel: a fish (385486).
 Herbario Nacional de Bolivia, Bolivia: 516 plants (383291).

Herbarium Humboldtianum, Argentina: 3 plants (382685).

Hillsdale College: a mounted ivory-billed woodpecker (383507).

Hong Kong, University of, China: 5 crustaceans (373884, 374645).

Houston, University of: 100 crustaceans including slides (373162).

Idaho, University of: 5 plants (385755).

Illinois State Museum: 3 insects (387625).

Indian Institute of Sugarcane Research, India: 51 insects (387537).

Indiana, University of: 3 plants (383243).

Institut de Geologie et Paleontologie, Switzerland: 42 fossils (384174).

Institute of Oceanographic & Fisheries Research (I.O.A.K.E.), Greece: 11 fishes (385964).

Institute of Systematic Botany, The Netherlands: 211 plants (381914, 383580, 383581, 383596, 383966, 384964, 385566, 385725).

Instituto Anchietani de Pesquisas, Brazil: Herbarium Achieta: 26 plants (385580, 386817).

Instituto Boliviano de Biologia de Altura, Bolivia: Herbarium ORSTOM: 26 plants (381853, 385597).

Instituto de Botanica del Nordeste, Argentina: 3 plants (384293).

Instituto Investigaciones Pesqueras, Spain: 64 fishes (385965).

Instituto Miguel Lillo, Argentina: 45 insects (387323).

Instituto Nacional de Investigaciones sobre Recursos Bioticos, Mexico: Herbario: 5 plants (381880, 381902).

Instituto Nacional de Pesquisas da Amazonia, Brasil: a plant (384250); 7 insects (387595).

International Potato Center, Peru: 290 plants (384766).

Isleta de sur Pueblo (Tiqua), Indian Nation of: a ceramic pot (380540).

J. L. B. Smith Institute of Ichthyology, South Africa: 17 fishes (382833).

Jardin Botanico Nacional, Dominican Republic: "Dr. Rafael M. Moscoso" Herbarium: 61 plants (383930, 385715, 385720).

Joseph M. Long Marine Laboratory: 4 protozoan slides (381694).

Kansas, University of: 4 insects (387598).

Karachi, University of, Pakistan: 28 crustaceans (370167).

Leeds, University of, England: 21 plants (385529).

Louisiana State University: 4 bird skeleton (379073, 384648)); 21 plant (384264, 384909).

Lyman House Memorial Museum: a mineral (374517).

Maine, University of: 200 echinoderms (326791); a fossil and a fossil cast (385169).

Malaysia Forest Department Headquarters, Malaysia: Sarawak Herbarium: 5 plants (383909).

McGill University, Canada: 100 worms (281792).

Miami Metro Zoo: 17 frozen birds (383513).

Miami, University of: 8 crustaceans (332276); 188 echinoderms (335313).

Michigan State University: 16 plants (385559).

Michigan, University of Michigan: Herbarium: a plant (383268)

Mineral Fund: 32 specs. including minerals, quartzs and copper (381506, 381531, 381536, 381550, 382958, 382988, 383023, 384510, 384526, 384545).

Missouri Botanical Garden Herbarium: 2,729 plants (381879, 381891, 381892, 381893, 381896, 381909, 381911, 381917, 381919, 382358, 382359, 382688, 382694, 382712, 382725, 383226, 383227, 383251, 383274, 383877, 384249, 384307, 384318, 384744, 384755, 384771, 384884, 384918, 384920, 385553, 386320).

Montana State University: 3 crustaceans (383064); 75 mollusks (384082, 384821).

Museo Civico di Storia Naturale del Salento, Italy: a bird skeleton (382894).

Museu Botanico Municipal Herbario, Brazil: 92 plants (382304, 384269, 386787).

Museum National D'Histoire Naturelle, France: a fish (382149).

Museum and Art Galleries of the Northern Territory, Australia: an echinoderm (385412).

Museum of Victoria, Australia: 2 mollusks (383194).

Nagasaki University, Japan: 6 fishes (382144).

National Institute of Oceanography, England: 3 echinoderms (383649).

National Museum New Zealand, New Zealand: 62 fishes (385488).

National Taiwan University: Ichthyological Laboratory: China: 12 fishes (382842).

Nevada State Museum: 11 plants (381881).

New Hampshire, University of: 26 echinoderms (327197).

New York Botanical Garden: Herbarium: 1,451 plants (381921, 382647, 383237, 383294, 383957, 384767, 385695, 386307).

Normandeau Associates, Inc.: 850 crustaceans (335539).

North Carolina State University: 5 protozoan microscope slides (381656).

North Carolina, University of: 17 plants (381877, 381924).

Northern Arizona University: a protozoan slide (381659); 9 fossils (383440); a plant (383574).

Northern Territory of Arts & Sciences, Australia: a shrimp (373710).

Northern Virginia Community College: 4+ echinoderms (383662):

Nova University: echinoderms (385436).

Ohio Department of Natural Resources: 2 plants (384294).

Okayama University of Science, Japan: 11 plants (379783).

Okinawa Expo Aquarium, Japan: 2 echinoderms (347964).

Old Dominion University: a worm (374049).

Oporto University, Portugal: Institute of Biomedical Sciences: 2 echinoderms (383676).

Oregon State University: 33 plants (382717).

Pacific Tropical Botanical Garden: 3 plants (385578).

Pala International: 3 minerals (381485).

Paul E. Desautels Fund: a faceted gem (382993).

Pennsylvania State University: 45 fishes (374857, 377819, 381222).

Port Harcourt, University of, Nigeria: 65 crustaceans (372575).

Premier Gem Corporation: 2 diamond replicas (381503).

Puerto Rico, University of: a fish (382856).

Queensland, University of, Australia: 6 slides of echinoderms (383641).

Rama de Botanica Herbario-Hortorio, Mexico: 25 plants (382684).

Ramkhamhaeng University, Thailand: 296 crustceans (383063, 385025).

Rijksmuseum Van Natuurlijke Historie, The Netherlands: a crustacean (367363); an echinoderms (381676); 170 fossil birds (384186).

Roebeling Fund: 30 minerals (381465, 381473, 381522, 381534, 382953, 382983, 383022).

Roland W. Brown Fund: 1,745 fossil plants (380291, 385199, 385200).

Royal Botanic Garden Herbarium, England: 53 plants (381840, 382690, 386473).

Royal College of Surgeons of England, England: 6 bird skeletons (382017)

Royal Ontario Museum, Canada: a bird (383499).

San Angelo State University: 5 bird study skins (364046).

San Francisco State University: 2 slides of echinoderms (385415).

Santa Barbara Museum of Natural History: 31 plants (386483).

Sea Pharm. Inc.: 8+ echinoderms (385400).

Shanghai Museum of Natural History, China: 33 fossils (382520).

Smithsonian Institution: Restricted Funds: See Also Canfield Fund, Casey Fund, Drake Fund, Mineral Fund, Paul E. Desautels Fund, Roebeling Fund, Roland W. Brown Fund, Springer Fund, Stuart Fund, Walcott Fund.

South African Museum, South Africa: 3 echinoderms (385435).

South Australian Museum, Australia: 2 octocorals (381657); 2 worms (384481).

South Carolina, University of: a crustacean and 2 worms (383053).

South Pacific, University of, Fiji Islands: 6 fishes (315925).

Southern Arkansas University: 139 crustaceans (373082, 383072, 372049).

Springer Fund: 21 fossil echinoderms (382488).

Station Marine d'Endoume et Centre d'Océanographie, France: 5 crustaceans (366009, 374069); an echinoderm (383680).

Stellenbosch, University of, South Africa: a plant (385760).

Stetson University: 7 plants (382262).

Stuart Fund: 13 minerals (378915, 379603, 381462, 381475, 381486, 381498).

Suriname, University of, Suriname: National Herbarium of Suriname: 30 plants (383235).

T. F. H. Publications, Inc.: 50 fishes (382854).

Tall Timbers Research Institute, Inc.: 5000 worms (382788).

Texas A&M University: 73 crustaceans (373058, 375712); 14 plants (382706, 383935); fossils (386617).

Texas, University of: Herbarium: 103 plants (383225, 383292, 385521).

Tianjin Animal & Plant Quarantine Service: China: an insect (387569).

Tiroler Landesmuseum Ferdinandeum, Austria: 3 insects (387342).

Tokyo, University of, Japan: an echinoderm (385401).

Toronto, University of, Canada: 6 echinoderms (385407); a plant (386044).

Tropical Botanic Garden and Research Institute, India: a plant (386478).

Tulane University: 30 fishes (383732); a fossil (384121).

Universidad Autonoma De Baja California, Mexico: 9 crustaceans (375649).

Universidad Autonoma de Sinaloa, Mexico: 9 plants (386805).

Universidad Central de Venezuela, Venezuela: 270 plants (381933, 382667, 384736, 384739, 386462).

Universidad de Buenos Aires, Argentina: 28 crustaceans (361566).

Universidad de Concepcion, Chile: 40 echinoderms (383650).

Universidad de Guadalajara, Mexico: 2 plants (384296).

Universidad del Quindio, Colombia: 59 plants (383885).

Universidad Nacional, Columbia: 15 plants (384251, 382275, 383278).

Universidad Nacional Autonoma, Honduras: a plant (382643).

Universidad Nacional de Asuncion, Paraguay: 8 plants (382264).

Universidad Nacional Experimental de los Llanos Occidentales, Venezuela: 254 plants (384239).

Universidad Nacional Mayor de San Marcos de Lima, Peru: 76 plants (384240, 384720).

Universidade de Caxias do Sul, Brasil: Herbario: 460 plants (381313,

381314, 381347, 382352, 382674, 382681, 382714, 383249, 383272, 383284, 383322, 383562, 384897).

Universidade de Sao Paulo, Brazil: 12 fishes (338838); 3 plants (383950).

Universidade Estadual Sao Paulo, Brazil: Instituto de Biologia: 56 plants (382336).

Universidade Federal da Paraiba, Brazil: 44 fishes (382839).

Universidade Federal De Vicoso, Brasil: 15 plants (381850).

Universidade Federal Do Rio De Janeiro, Brazil: 25+ crustaceans (385054).

Universitat Hamburg: Germany: 2 crustaceans (381766); Herbarium: 6 plants (381875).

Universitat Wien, Austria: Institute fur Botanik: a plant (383968).

Universitat Zurich: Institut fur Systematische Botanik, Switzerland: 16 plants (382704, 384309).

Utsunomiya University, Japan: 14 plants (380665).

Victoria, University of, Canada: a crustacean (381773).

Walcott Fund: (380291-See Also Roland W. Brown) 276 fossils (381135, 382525, 385129).

Washington State University: 345 plants (381908).

Western Australian Museum, Australia: 8 echinoderms (385404).

Western Ontario, University of, Canada: a plant (383893).

West Florida, University of: 5 fishes (383733).

Wildlife Research Laboratory: 4 crustaceans (373770).

Wisconsin, University of: Herbarium: 5 plants and 3 photo copies of plants (382321, 382699, 383239, 383920, 384267).

Woods Hole Oceanographic Institute: 103+ worms (271291, 384471).

NATIONAL PORTRAIT GALLERY

Donors to the Collection

- Anonymous donor. Photograph, gelatin silver print, of James Jones by Nancy Crampton (NPG.88.118).
- The Barra Foundation. Bronze bust portrait of S. Dillon Ripley by Walker Hancock (S/NPG.89.24).
- The Family of Philip Dix Becker. Watercolor on ivory miniature portrait of Chief Thundercloud by Eulabee Dix (NPG.89.66).
- The Morris and Gwendolyn Cafritz Foundation. Oil on canvas portrait of George Berkeley by John Smibert (NPG.89.25).
- Mrs. Boris Chaliapin. Original artwork for TIME Magazine covers of Synman Rhee (1950) and Harry Truman (1951).
- Mrs. Boris Chaliapin and Irina Chaliapin Murphy. Oil on canvas portrait of George London (T/NPG.89.67.95); oil on canvas portrait of Fritz Reiner by Boris Chaliapin (NPG.89.68); one drawing each of the following: Katherine Dunham (T/NPG.89.75.00), Marlene Dietrich (T/NPG.89.74.00), Jascha Heifetz (T/NPG.89.76.97), Arturo Toscanini (NPG.89.78), and Dmitri Tiomkin (NPG.89.77) by Boris Chaliapin; one print of Boris Chaliapin, self-portrait (S/NPG.89.73); pencil and gouache studies for TIME Magazine covers of Admiral Chester Nimitz (circa 1942) and Henry Ford (1946) by Boris Chaliapin.
- Mariana Cook. Photograph, gelatin silver print, of Lillian Hellman by Mariana Cook (T/NPG.88.210.94).
- Beverly J. Cox. Halftone music sheet of Kate Smith, unidentified artist (S/NPG.89.4).
- Ralph Crump and Donna Harman. Painted plaster bust portrait of Clarence Darrow by Kathleen Wheeler (NPG.89.112); plaster bust miniature portrait of Clarence Darrow by Kathleen Wheeler (NPG.89.111); painted plaster bust portrait of George Norris (NPG.89.113).
- T. Mellon Evans Foundation. Tempera and gouache on cardboard portrait of Gertrude Stein and Alice B. Toklas by Sir Francis S. Rose (NPG.88.161) (partial gift).
- Rosemary Frank. Studies for TIME Magazine covers of Edward Kennedy by Larry Rivers (1971); Paul McCartney by Peter Max (1976); "Hippies" by Group Image (1967); Jeanne Moreau by Kees Van Dongen (1965).
- Lydia Freeman. "Newstand", magazine, featuring lithograph of Al Hirschfeld by Don Freeman (T/NPG.88.213.00).
- Ira Glackens. Bronze head portrait of Charles Fitzgerald by Jo Davidson (S/NPG.89.3); Oil on wood panel portrait of Rutherford B. Hayes by Lenna Glackens (S/NPG.89.2).
- Carolyn Reading Hammer. Tempera on panel self-portrait of Victor Hammer, "Man in Black Robe" (NPG.89.51); Silverpoint drawing of Victor Hammer, self-portrait (NPG.89.59); Mezzotint of Victor Hammer, self-portrait (NPG.89.60).
- Dr. Fred W. Hicks III. Lithograph of Edward Everett, Currier & Ives (NPG.89.63); Lithograph of John Hughes, Currier & Ives (NPG.89.64).
- Richard Hinds. Oil on canvas portrait of Edward L. Bernays by Patricia Tate (NPG.88.212.00).
- Judith and Steven Katten. Tempera painting of John Gilbert by Batiste Madalena (NPG.89.80).
- Patricia John Keightly and John Spaulding John. Oil on canvas portrait of Thomas Mann by Grace S. John (NPG.88.203).

Benjie Goodman Lasseau and Rachel Goodman Edelson. Oil on canvas portrait of Benny Goodman by Rene Bouche (T/NPG.89.1.26).

David Levine. Thirty-three ink drawings of American political figures by David Levine (S/NPG.88.124-156).

The Family of David E. Lilienthal. Photograph, gelatin silver print, of David E. Lilienthal by Arnold Newman (T/NPG.88.230.91).

John Manship. Oil on canvas portrait of Paul Manship by John Manship (NPG.89.53).

Elizabeth Nicole McMartin. Unpublished portrait of Robert Kennedy for TIME Magazine (1965) by Robert Vickrey.

Vincent and Sheila Downey Melzac. Bronze bust portrait of George Bush (NPG.89.85).

G. Joseph Minetti and Tierney Minetti Grinavic. Oil on canvas portrait of Joseph McCarthy by Ila M. Junod (NPG.89.42).

Mary Ryan Gallery. Lithographic crayon drawing of William Jennings Bryan by Hugo Gellert (NPG.89.62).

Time Inc. One hundred and fifteen pieces of original artwork for TIME Magazine covers.

Miriam Troop. Pencil drawing of Ellsworth Bunker by Miriam Troop (T/NPG.88.215.94); six drawings of Joseph Hirshhorn by Miriam Troop (S/NPG.89.37.1-6).

William Varieka. Watercolor on paper portrait of Thomas Seir Cummings by Augustus Earle (NPG.89.65) (partial gift).

Scott Vickrey. Unpublished portrait for TIME Magazine of Roger Maris (1961) by Robert Vickrey.

Wendy Carolyn Vickrey and Paul Muenzinger. Unpublished portrait for TIME Magazine of John F. Kennedy (circa 1959) by Robert Vickrey.

Donald Vogler. Lithograph of Peggy Bacon by Alexander Brook (T/NPG.88.214.97).

Virginia M. Zabriskie. Photograph, gelatin silver print, of Henry Miller by Man Ray (T/NPG.88.231.90); photograph, gelatin silver print, of Gloria Swanson by Cecil Beaton (T/NPG.88.232.93).

OFFICE OF HORTICULTURE

Donors to the Collection

Carol, Augie, and Pat Daum. Twenty-four Christmas tree ornaments; beads.

Betsy Kimball Dempsey. Eighty Christmas tree ornaments; carousel figurines.

Barbara Todd Kennedy. Five watercolor paintings of orchids.

Debbie Prots. One hundred Christmas tree ornaments; baskets.

Ruth Reetz and Marilee McNeilus. Two hundred and fifty-five Christmas tree ornaments; sea shells.

Bess Smith. Two hundred and twelve Christmas tree ornaments; Battenberg lace.

OFFICE OF FOLKLIFE PROGRAMS

Donors to the Collection

Anibal Alvarado. Puerto Rican quiro made from a squash gourd.

Blue Star Tipi. Sioux tipi made of buffalo hide and poles.

Mrs. Donald Gregg, wife of Ambassador to Korea. Collection of old Burmese recordings.

Emilia Mau'ia. Samoan fine mat made from lauhala (pandanus fronds).

Nydia Rios de Colon. Puerto Rican drinking bowl made from a squash gourd.

SMITHSONIAN FURNISHINGS COLLECTION

Donors to the Collection

Mr. and Mrs. Lloyd Raport. Pair of Renaissance Revival side chairs; Baltimore; 1883 (SI.89.35 & 36).

Richard E. Stamm. Chandelier; cast iron; oil burning; Meriden Ct.; ca. 1871 (89.37).

Miss Esther A. Manion. Four Rococo Revival side chairs; American; ca.1860 (89.50 - 53).

Donors of In-Kind Support

INTERNATIONAL CENTER

Donors of In-Kind Support

OFFICE OF QUINCENTENARY PROGRAMS

University of Maryland at College Park, Department of Spanish and Portuguese. Printing, interpretation services for the symposium "Violence and Resistance in the Americas: The Legacy of Conquest," and an associated dinner and lecture held at the University of Maryland.

INTERNATIONAL GALLERY - Caribbean Festival Arts Exhibition

Air Jamaica. Fifty-eight complementary air tickets to artisans and scholars participating in ancillary programming and to prize winners in demographic survey.

Angostura International Ltd., U.S. Division. Beverages for opening night reception and display materials for exhibition.

Appleton Rum Company, Jamaica. Beverages for opening night reception and display materials for exhibition.

BWIA International. Complementary air tickets to scholars participating in Dialogue series.

Embassy of Jamaica. Facilitated access to government agencies and corporations who cooperated in exhibition.

Embassy of Trinidad and Tobago. Lent costume collection for opening night gala. A representative served on the community planning committee for the opening.

JAMPRO. Facilitated access to importers of Jamaican goods.

W. A. Taylor & Co. Tia Maria for Dialogue receptions.

NATIONAL ZOOLOGICAL PARK

Donors of In-Kind Support

The Earle Palmer Brown Companies. Creation, design, and production of marketing materials for the National Zoo's Centennial Society.

Dr. Jeffry Life. Extensive aquarium filter equipment for aquatic exhibits.

National Geographic Society. Assembled and installed TV cameras and recording equipment for giant panda pregnancy. Created a remote control system for operating 24-hour monitoring of the panda.

SONY Corporation of America. Supplied on loan state-of-the-art TV monitoring and recording equipment for the panda pregnancy watch. Equipment was installed by the National Geographic Society.

Williams Whittle Associates, Inc. Wrote, designed and produced public service advertisements for local magazines, newspapers and bus placards that celebrate the Zoo's Centennial. WWA also took charge of placing the ads.

COOPER-HEWITT MUSEUM

Donors of In-kind Support

Air France. International air transportation expenses for "L'Art de Vivre: Decorative Arts and Design in France, 1789-1989" exhibition.

Anheuser Busch, Inc., Underwriting of entertainment costs and forty cases of Michelob Dry beer for Junior Committee benefit.

The Giorgio Armani Corporation. 200 samples of Armani Perfume for Junior Committee benefit.

British Airways. International air freight expenses for "Courts and Colonies: The William and Mary Style in Holland, England and America."

The Cascade Mountain Vineyards. Eight cases of white wine for Junior Committee benefit.

Andre Chenoue & Fils. Partial underwriting of insurance costs for "L'Art de Vivre" exhibition.

Foreign Office of the German Federal Republic. Contribution to insurance costs for the exhibition "Erich Mendelsohn: Architectural Drawings."

Frost Lighting Company. Special lighting designs for Junior Committee benefit.

KLM Royal Dutch Airlines. International air freight services for the exhibition "The Modern Dutch Poster: The First 50 Years, 1890-1940."

Kron Chocolatier. 500 samples of chocolate candy for Junior Committee benefit.

Lufthansa German Airlines. International air freight expenses for the exhibition "Erich Mendelsohn: Architectural Drawings."

Maidstone Importers. Two cases of Kahlua for Junior Committee benefit.

Dick Mendelsohn. 500 bottles of Saratoga mineral water for event.

Nell's. Use of club facilities for Junior Committee event.

Pepsi-Cola Bottling Company. Ten cases of mixers for special events.

Piper Heidsieck Champagnes. Five cases of champagne for opening of "Courts and Colonies" exhibition.

Remy Martin, USA. Five cases of champagne for opening of "Courts and Colonies" exhibition.

The House of Seagram. One case of Chivas Regal for Junior Committee benefit.

Smithsonian Magazine. 500 magazines and 500 posters for Junior Committee benefit favors.

Sotheby's. 500 shopping bags for Junior Committee benefit.

The Upper Crust. Partial cost of catering services for Junior Committee benefit.

NATIONAL MUSEUM OF AMERICAN ART

Donors of In-Kind Support

Standard Clay Mines. 350 pounds of grey claystone used in family workshops held in conjunction with "The Art of Paulanship."

Tiffany & Co. Engraving, printing and mailing of invitations for the preview reception for "Masterworks of Louis Comfort Tiffany."

Vanity Fair Magazine. "Perpetual Motif: The Art of Man Ray" preview reception and dinner.

OFFICE OF FOLKLIFE PROGRAMS

Donors of In-Kind Support

A.O. Smith/Thomas Sommerville Company. Four 50-gallon hot water heaters for festival foodways demonstrations.

Alfredo Siani. Ten herb plants for Caribbean program.

Allied Plywood. One hundred sheets of plywood and hardboard for festival site construction.

Atebara Potato Chips Company, Inc. Sixteen pounds taro chips for festival hospitality.

B. F. Trappey's and Sons, Inc. Seven cases pickled products and hot sauce for French and French American festival participants.

Bacardi Import. Two cases white rum for Caribbean festival program.

Barrons Lumber. Lumber for festival site construction.

Bong Brothers Coffee Company. Ten pounds Kona coffee for Hawai'i festival participants.

Botanical Gardens. Plants and herbs for festival programs.

Boudin King. Boudin sausage for festival participants and staff.

Cafe Bustelo. Two cases coffee for Caribbean participants.

Campbell Sales Co. One case pork and beans for Hawai'i program general store.

Captain Cook Coffee Company. Two pounds Kona coffee for Hawai'i program participants.

Carnation Company. Four cases evaporated milk for Hawai'i program general store.

Crop Genetics International. Twelve planters with sugarcane for Hawai'i festival program.

Devlin Lumber. Lumber for festival site construction.

Dial Corporation. Five cases Vienna sausages for Hawai'i program general store.

Easterwood Rice Sales Corporation. Fifty pounds rice for Caribbean program foodways demonstrations.

Florida State Department of Agriculture, Division of Forestry and Consumer Services. Twenty-five coconut palms and palm fronds for Caribbean program.

Florida Sugar Cane League. Twelve cases cut sugar cane for Caribbean program.

Frito Lay of Hawai'i, Inc. Five cases Maui Chips for festival hospitality.

Fruit and Spice Park. Cassava and malonga plants for Caribbean program.

Fugya, Ltd. Two cases rice crackers for Hawai'i program general store.

G-Street Fabrics. Two bags of remnants for Caribbean festival program site.

George A. Hormel. Two cases of Spam for Hawai'i program general store.

Gould's Pumps. Two water pumps for Hawai'i program taro loi.

Granny Goose Foods, Inc. Nine cases taro chips for Hawai'i program participants.

Hawai'i Department of Agriculture, Marketing Division. Fresh tropical flowers for Hawai'i site and lei.

Hawai'i Pork Industry Association. Four pigs for Hawai'i program.

Hawaiian Service, Inc. Two hundred fifty postcards for Hawai'i program general store.

Imperial Products. Four hundred thirty pounds of charcoal for Caribbean program foodways demonstrations.

J. Martinez and Company. Twenty pounds Kona coffee for Caribbean program participants.

Joseph E. Seagram and Sons, Inc. Four oak barrels for Hawai'i program general store and French program planters.

Kona Kai Farms. Twenty-five pounds Kona coffee beans for Hawai'i program participants.

Konriko. Fifty pounds rice for Caribbean program foodways demonstrations.

Kuai Kookies. Two cases macadamia nut cookies for Hawai'i program participants.

Lanai Company. Two cases pineapples for Hawai'i program.

Maryland Pork Producers. Four pigs for Hawai'i program.

Maui Chips. Fifty-eight cases Maui chips for festival hospitality.

Papaya Administrative Committee. One hundred papayas for Hawai'i program.

Pier I Imports. Three hundred white paper lanterns for O'bon tower in Hawai'i program.

Puukapu Farms. Two hundred jars of jam for Hawai'i program.

Rudi's Foods, Inc. Pastries for festival crew.

Sioux Trading Post Inc. Five braids of sweetgrass for American Indian program.

Southern Tropicals. Tropical plants and shipping for festival site.

Steel and Wire Company. Four hundred pounds drywall screws for festival site construction.

Sugar Association. Four hundred pounds of sugar for Caribbean program foodways demonstrations.

Tandy Leather Company. Cowhide for American Indian program.

Vie de France Baking Corporation. Bread for festival participants.

William B. Riley Coffee Company. Seventy-five pounds Luzianne coffee for festival hospitality.

Yick Lung Company, Inc. Crack seed, assorted flavored chips and display rack for Hawai'i program general store and hospitality.

OFFICE OF INTERDISCIPLINARY STUDIES

Donors of In-Kind Support

Carillon Importers Ltd. Beverages for two events during tenth international symposium.

Monsieur Bernard de Nonancourt, chairman, Domaine Laurent Perrier. Champagne for tenth international symposium reception.

TOTAL Compagnie Française de Pétroles. Two first-class plane tickets, Paris to United States, for tenth international symposium.

TWA. Six first-class plane tickets, Paris to United States, for tenth international symposium.

Appendix 8

Contributing Members of the Smithsonian Institution in Fiscal Year 1989

SMITHSONIAN CONTRIBUTING MEMBERS

The Contributing Members of the Smithsonian National Associates support the Institution through generous annual contributions. Such participation, in conjunction with special gifts from the members, enables the Institution to pursue specific projects and broader research, acquisition, preservation, and education efforts that might otherwise not be possible.

The Smithsonian Institution gratefully acknowledges the loyal and thoughtful support of the Contributing Membership. Sponsoring Members (\$300) and Sustaining Members (\$600) are listed separately.

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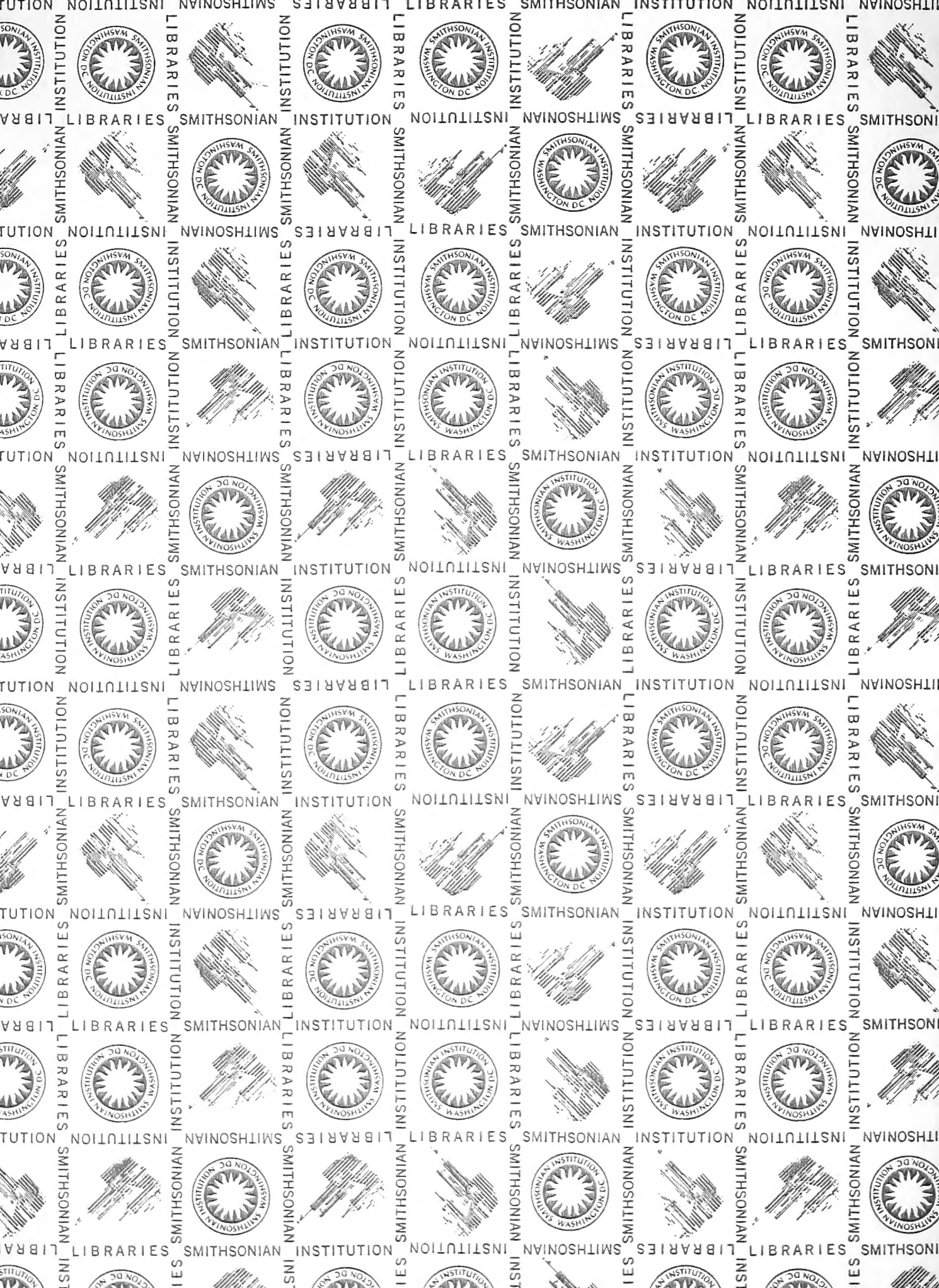
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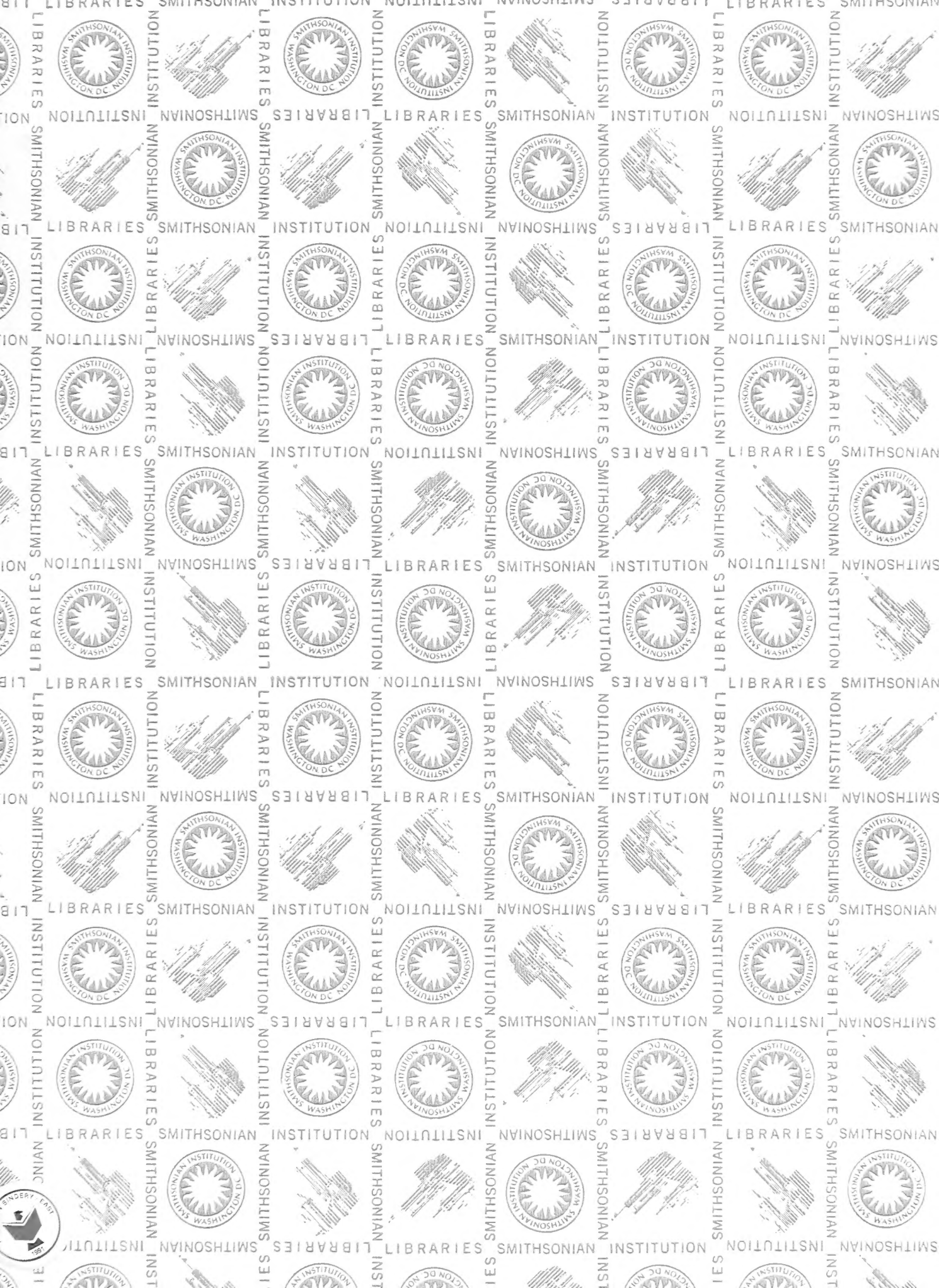
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